

CHUSKA ENERGY CO., BLACK ROCK #12 7-40N-29E NW SW #875 O

LEASE NO. NOG 8702-1116 AREA BLACK ROCK FIELD COUNTY APACHE Now Hatken SW WELL NAME CHUSKA ENERGY CO., BLACK ROCK #12 LOCATION NW SW SEC 7 TWP 40N RANGE 29E FOOTAGE 1527' FSL & 1165" FWL STATUS GAS ELEV 5679' GR 5692' KB SPUD DATE 6/30/93 DEPTH 5230' COMP. DATE <u>8/17/93</u> AZTEC DRILLING CO. CONTRACTOR LINER SIZE & DEPTH CEMENT CASING JIZE DEPTH DRILLED BY ROTARY X DRILLED BY CABLE TOOL 8 5/8" 514' 360sx 4 1/2" 5246 1480sx (TWO STAGE) PRODUCTIVE RESERVOIR PARADOX FM INITIAL PRODUCTION 2486 MCFD (TEST) SOURCE DEPTHS REMARKS FORMATION TOPS L.L. E.L. (TOPS REPORTED BY OPERATOR) SURF MORRISON FM 895' CHINLE FM 2027 DECHELLY SS 23851 ORGAN ROCK SH 3719' HERMOSA 42991 UPPER ISMAY LOWER ISMAY 4363 4586' AKAH 50631 MOLAS FM 51361 MISSISSIPPIAN SAMPLE LOG PERFORATED INTERVALS PROD. INTERVALS ELECTRIC LOGS SAMPLE DESCRP. SELECTED BETWEEN SAME DLL, ML, FDC/CNL, CBL/ SAMPLE NO. 4106' to 4930' CORE ANALYSIS CCL/GR DSTs REMARKS PERMIT EXTENDED \*\*PERMIT RENEWED JULY 1993) \*\* APP. TO PLUG \_\_\_ PLUGGING REP. COMP. REPORT YES WATER WELL ACCEPTED BY BOND NO. C.D. #2578904 BOND CO. VALLEY NATIONAL BANK, PHOENIX DATE 12/10/89 CANCELLED \_\_\_\_ ORGANIZATION REPORT YES BOND AMT. \$ 25,000 LOC. PLAT WELL BOOK PLAT BOOK FILING RECEIPT 2924 DATE ISSUED 5/14/90 DEDICATION SW QTR API NO. 02-001-20294

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PERMIT NUMBER 875

(over)

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	WELL	COMP	(	OR RE	COMPL	ETION	REPO	( RT AN	ID WE	LL !	_OG			
161-		. 001111		DESIGNA	TE TYPE	OF COMPL	ETION:			_		_		
Well X Ov	ork- er	Desp		Beck	Reser		Reser	voir _	Oil	X.	Gas	<u> </u>	Dry	믝
Operator	<del></del> -			DESCRIP	TION OF	WELL AND	LEASE							
Chusba Enero	y Comp	any				3315 B		ield H	ighwa Reservo	u, Fe	<u>urming</u>	ton.	NM 8	7401
Federal, State or In 8702-1116	dian i.esse	Number or	r name of let	SOF IT TREE I	e250	12	<i>,</i> 61	Black	_		ld		_	
Location	<del></del>			<u>.                                    </u>		Cou	•		······					
1527' FSL &	1165'	FWL			MITH	A	<u>pache</u>	Count	ty, $AZ$	<u> </u>				
Sec. TWP-Range or			CUN	IFIIIH	$N \cap H$	-								
Section 1-To Date soudded	40N-KZY	Date total	depth resci	ed Da	rte complet	ed, ready to	Ele	vation		,	Eleva	tion of	casing	
6-30-93			-14-93	pr	oduce &	-17-93_	(DI	5679 (				ange 5692		feet
Total depth		P.B.T.D.			· · ·	r triple com	pletion?		furr	rish sept	iual or tri arate repo	ple con art for (	npletion each con	n-
5230'	<del>, , , , , , , , , , , , , , , , , , , </del>	N/A	~~~		<u>Single</u>	Rotary to	wle 1120-4	(interval)	plet	ion.	e tools u			
Producing interval						1 .		/1114C1 V61/		No		,		
Hermosa, Ism Was this well direct	ay, ve.	ied? V	urc, Arctur Vas direction	nal survey n	nade?	Was copy		tional sur	vey		filed			
No		-	Yes			filed?	No				/10/9	3		
Type of electrical				with the co	(noiæimm					Date	e filed	0.2		
DLL, ML, FD	C/CNL.	CBL/CO	CL/GR		CASINO	RECORD					9/10/	75		
Casing (report all s	strings set is	n well co	nductor su	rface, inter			:.)							
Purpose		ole drilled		asing set		(lb./ft.)		epth set		Sacks o	ement	<i>A</i>	Amt. pul	led
Surface	12 17	4"	8 5/3	gii		-55, ST					c Clas	_	' CaC	L2
Production	7 7/8		4 1/		11.6	J-55,	LT&C	5245	. 92	SEE /	TTACH	MENT		
DVT @ 3500'									DE007		<del></del>			
	TUBING R		acker set at	Size	<del></del>	Top		IBottom	RECORI		s cement		Screen (1	1)
<b>Size</b> 2 3/8 in.	Depth set 4947.		3993.6	' i	"3" in		ft.	-	f				·	
			RECORD			,		OT, FRA		CEMEN				
Number per ft.	Size &	type	D	pth Interv	31	Am't	. & kind	of materi	al used		De	pth Int	(erva)	
SEE ATTACH	IENT													
					<b></b>	1	221							
Date of first prod	uction	1.	Producing m	ethod (ind	icate if flow	PRODUCTION VING, gas lift	or pump	ing-if pu	ımping, ı	now siz	e & type	of pur	np:)	
8-17-93			Flowing	Gas we	ell. N	ote: Re	cover	ing lo	ad H	o du	ring <sub>-</sub>	KLOW	resi	
	Hrs. tested		oke size	1	during test	Gas pro	d. during		Water 56.0		uring test	13	il gravit	
8-7-93	2		ne.	5.0	bbi o- I Oil	ls.   240	Gas	MCF		Water	bl	315.	Al as—oil r	l (Corr
Tubing pressure 325 ps ເg	- Casin	g pressure		n per 24 hr		60 bb		2486	MCF	677	bt	ols.	4143	
Disposition of 92 Gas vented	s (state who	ther vente	d, used for 1	uel or sold	ring to			as sa	les.	8-17-	93.			
						·								
CERTIFICATE	_		under the p	enalty of p							<u>inager</u>			_of the
Chuska Ene					(company	), and that I	am auth	orized by	said cor	npany t	o make t	his repo	ort; and	that this
report was prep	a <del>red</del> under	my supen	vision and di	rection and	that the fo	cts stated t	nerein an	TIUE, CO	Hact and			wast-Q	· IIIY KIII	`icañe
				9/24/	62 (	7	ر کے	41	N	elc				
Date 9-2	3-93			1101		Sig	neture	<del>,</del>			_			
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									TATE (	TE ADI	IZONA			
API 02	-001-7	0794		_ 0	7 1993		OIL	ە GAS C ي				MMISS	SION	
	. 001 2	~~17		SEP "	•	y.v.		pletion (						.og
Ba	سر سه			-			n No. 4	PIVELUII (		One Co				
Permit No.	s />					Form	ii 140. <del>4</del>							

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DETAIL OF FORMATIONS PENETRATED

FORMATION	TOP	воттом	DESCRIPTION!
orrison	Surface	1	
thinle	895	1	
PeChelly	2027'		
Irgan Rock	2385'		· .
lermosa	3719'		
Ipper Ismay	42991	1	
venweep Sh	4358'	İ	
Lower Ismau	4363'	1	
Fothic Shale	4437'		•
Desert Crk	4449		
Chimney Rock S	4580'	1	
Akah	4586		
arker Crk	4736'		
Pinkerton Tr	4860'		
Molsa	5063'		
ississippian	5136'	l	
TP	5235'		
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\* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

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INSTRUCTIONS:
Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion representation well log shall be filed with the State of Arizona Gas Conservation Commission not later than thirty days after project completion.

₹ Form No. 4

Black Rock #12 Sec. 7-T40N-R29E Apache Co., Arizona

Production Casing Cementing Record:

SEP 27 1993

Stage 1: (5234-3500)

20 bbls mud flush Preflush:

390 sx (705.9 ft3) Haliburton Lite Cmt + Lead Slurry:

1/4#/sx Flocele

170 sx (204 ft3) Premium 'G' Cmt. + 5% Cal Seal Tail Slurry:

+.4% Halad 344

Circulated 75 sxs to surface Returns:

8:10 AM, 7-15-93 Plug Down:

Stage 2: (3500-Surface)

Preflush: 20 bbls water

850 sx (1539 ft3) Haliburton Lite Cmt + 1/4#/sx Lead Slurry:

Flocele

70 sx (83 ft3) Standard Neat 'B' Cement Tail Slurry:

Circulated 720 sxs to surface Returns:

3:50 PM, 7-15-93 Plug Down:

875 Black Rock #12 Sec. 7-T40N-R29E Apache Co., Arizona

( 3

CONTRACTOR :

THE SERVICE

SEP 2 7 1993

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<u>Perforation Record</u>: (7-30-93)
                                         Depth Interval
               No. per ft./Size&Type
Zone
                                         4106-14'
               2 SPF/0.45"Dia. HEG
Hermosa
                                         4415-18', 23-26'
               2 SPF/0.45"Dia. HEG
L. Ismay
                                         4526-28', 46-51'
               2 SPF/0.45"Dia. HEG
Desert Creek
                                         4606-08', 34-41', 70-73',
               2 SPF/0.45"Dia. HEG
Akah
                                         4704-08'
U. Barker Crk 2 SPF/0.45"Dia. HEG
                                         4750-70'
                                         4828-34', 43-47'
L. Barker Crk 2 SPF/0.45"Dia. HEG
                                         4922-30', 42-45', 76-80'
Pinkerton Trl 2 SPF/0.45"Dia. HEG
               (7-31-93 through 8-6-93)
Acid Record:
                                         Depth Interval
                Am't & Decription
Zone
                1600 gal 20% 9.2# HCl
                                          4106-14'
Hermosa
                2600 gal 20% 9.2# HCl
                                          4415-4541'
Desert Crk &
L. Ismay
                900 qal 20% 9.2# HCl
                                          4606-4708'
Akah
                                          4750-701
U. Barker Crk 2000 gal 20% 9.2# HCl
                                          4828-34', 43-47'
L. Barker Crk 2400 gal 20% 9.2# HCl
                600 gal. 20% 9.2# HCl
                                          4976-80'
 Pinkerton Tr
                                          4942-45'
                450 gal. 20% 9.2# HCl
                1200 gal 20% 9.2# HCl
```

Comingled Flow Test: (All zones)

8-7-93 Date: Hours Flow Test: 2 HRS 2.486 MMCFD Rate: BWPHR 28.0

2.50 BOPHR

Flowing Tubing Pressure: 325 psig None (2 7/8 Flare Line) Choke:

REISSUE

STATE: ARIZONA COUNTY: APACHE API 02-001-20294 FIELD: BLACK ROCK WELL CLASS: DG **OPR: HARKEN SOUTHWEST** 

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40N-29E 7 SE NW SW 1527 FSL 1165 FWL STATUS: GAS

Petmit 875

SPUD: 08/30/93 COMP: 08/07/93 ELEV: 5692 KB 5679 GR
TD: 5235 (07/18/93) FM/TD: MISSISSIPPIAN
CONTR: AZTEC WELL SRVCG RIG #301 (R) RIG SUB: 13 (VERTICAL)
PROJ DEPTH/FM: 5266 PARADOX

COMP 8/7/93, IPF 60 BCPD, 2486 MCFGPD, 677 BLW, GTY 38.0, GOR 41435, FTP 325. PROD ZONE - PARADOX 4106-4980(GROSS). NO CORES OR DSTS. REISSUE TO CORRECT API #, DATES, FM/TD, TD, CSG, OPR, IP, PROD TEST, ADD LTD, TBG, LOG TYPES & TOPS. REPLACES CARD ISSUED 5/6/94.

12 BLACK ROCK

LOC DESCRIPTION: 10 MI W TEEC NOS POS, AZ; LAT: 3588451 LONG: 10927850;
WELL ID CHANGES: WELL # CHGD FROM 10. OPR CHGD FROM CHUSKA ENERGY API CHGD FROM 02-001-50034-0000. OPR CHGD FROM 11ARKEN EXPL.
CASING: 8 5/8 @ 514 W/360 SX, 4 1/2 @ 5230; TBG: 2 3/8 @ 4947;
LOG TYPES: CBND, CCL, CNL, DLL, FDC, GR, MICL;
LOG TOPS:
MORRISON

MORRISON CHINLE DE CHELLY

(SURF) 5692 4797 3665 895 2027

HERMOSA

2385 3719 3307 1973

956 832

629 556

(OVER) COPYRIGHT 1996 PETROLEUM INFORMATION CORPORATION

DATE 05/20/96CARD # 60001-F COR

REISSUE

STATE: ARIZONA COUNTY: APACHE API 02-001-20294 FIELD: BLACK ROCK WELL CLASS: OG **OPR: HARKEN SOUTHWEST** 

40N-29E 7 SE NW SW 1527 FSL 1165 FWL

**12 BLACK ROCK** 

(CONTINUED)

4363 4437 ISMAY L 1255 **GOTHIC** DESERT CREEK CHIMNEY ROCK 4449 4580 1243 1112 BARKER CREEK 4736 4880 PINKERTON TRAIL MOLAS MISSISSIPPIAN 5063

5235 457 SUBSEA MEASUREMENTS FROM KB:

SUBSEA MEASUREMENTS FROM KB;

DRLG COMMENTS: LOCAL CALL(LOG): HOVENWEEP 4358.

PROD TEST(S): PERF (HERMOSA) 4106-4114 W/2 PF, PERF (ISMAY L) 4415-4426 W/2 PF, GROSS,PERF (DESERT CREEK) 4526-4551 W/2 PF, GROSS,PERF (AKAH) 4506-4708 W/2 PF, GROSS,PERF (BARKER CREEK) 4526-4551 W/2 PF, GROSS,PERF (PINKERTON TRAIL) 4922-4980 W/2 PF, GROSS, 4415-4418, `4423-4428, 4528-4528, 4546-4551, 4508-4508, 4634-4641, 4670-4673, 4704-4708, 4750-4770, 4828-4834, 4843-4847, 4922-4930, 4942-4945, 4976-4980, ACID (4100-4114) W/1600 GALS, 20% HCL ACID (4415-4426) W/2600 GALS, 20% HCL ACID (4528-4708) W/2000 GALS, 20% HCL ACID (4750-4770) W/2000 GALS, 20% HCL ACID (4828-4847) W/2400 GALS, 20% HCL ACID (4922-4980) W/2250 GALS, 20% HCL PRODUCING INTERVAL: PERF (PARADOX)

(CONTINUED ON NEXT CARD) DATE 05/20/96CARD #00001-F COR

REISSUE

STATE: ARIZONA COUNTY: APACHE API 02:001:20294 FIELD: BLACK ROCK WELL CLASS: DG OPR: HARKEN SOUTHWEST

40N-29E 7 SE NW SW 1527 FSL 1165 FWL STATUS: GAS

12 BLACK ROCK

#### (CONTINUED)

4106-4980 W/2 PF GROSS,WELL PROD 73 BC, 19283 MCFG, 13 DAYS, AUG 1993; 25177 MCFG, 30 DAYS, SEPT 1993; 67 BC, 29985 MCFG, 91 BW, 31 DAYS, OCT 1993. WELL CUM AUG 1993-FEB 1996 1761 BC, 686763 MCFG, 6201 BW. IPF 60 BCPD, 2486 MCFG, 677 BLW.

QPER ADD: 2505 N HWY 360 STE 800, GRAND PRAIRIE, TX, 75050 PHONE (817) 695-4900;

orm 3160-5 lune 1990)	DEPARTMENT	ED STATES OF THE INTERIOR AND MANAGEMENT	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993  5. Lease Designation and Serial No.
Do not use this	4 tot proposale to drill	ND REPORTS ON WELLS or to deepen or reentry to a different reservoir. PERMIT—" for such proposals	NOG 8707-1142  6. If Indian, Allottee or Tribe Name  Navajo  7. If Unit or CA, Agreement Designation
	SUBMIT	IN TRIPLICATE	DW 875
1. Type of Well Oil Well Well	s Other		N/A 8. Well Name and No. Black Rock #12
2. Name of Operator Harken So	uthwest Corporat:	ion	9. API Well No. 02-001-20294  10. Field and Pool, or Exploratory Area
4. Location of Well (Fe	612007 Dallas, Tootage, Sec., T., R., M., or Survey De	exas 75261-2007 (972)753-6900 scription)	Black Rock  11. County or Parish, State
1527' FSL	tion 7-40N-29E & 1165' FWL		Apache Co., AZ
12. CHEC	K APPROPRIATE BOX(	s) TO INDICATE NATURE OF NOTICE, REPO	ORT, OR OTHER DATA
	OF SUBMISSION	TYPE OF ACTIO	
□ No	stice of Intent	Abandonment Recompletion	Change of Plans  New Construction
☐ s <sub>u</sub>	bsequent Report	Plugging Back Casing Repair	Non-Routine Fracturing Water Shut-Off
	nal Abandonment Notice	Altering Casing  XXOther Updated site	Conversion to Injection  Dispose Water (Note. Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
13. Describe Proposed give subsurfa	or Completed Operations (Clearly state see locations and measured and true ver	all pertinent details, and give pertinent dates, including estimated date of surficed depths for all markers and zones pertinent to this work.)*	arting any proposed work. If well is directionally drilled
Atta Jan	sched you will find the unlary 1998.	pdated site security diagram, for the above re	ferenced lease, as of

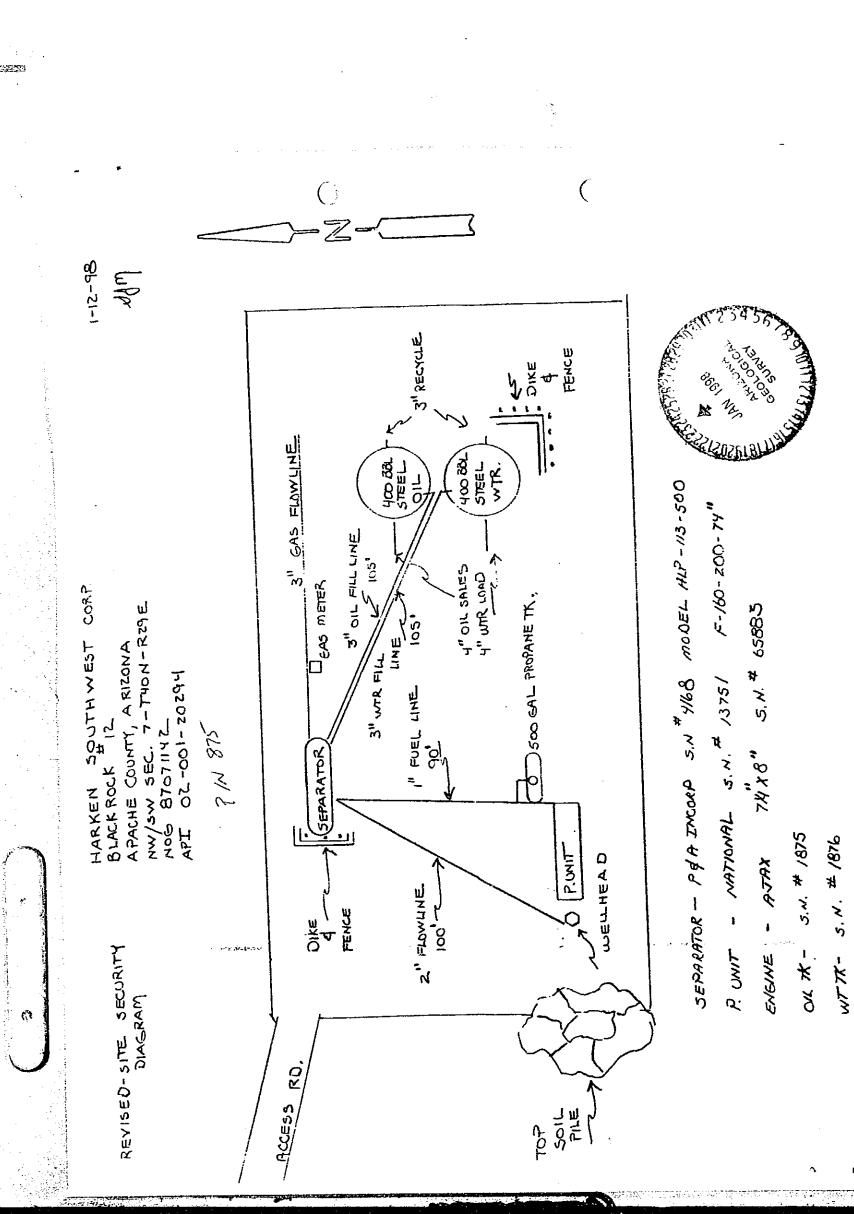
State of Arizona CC: Navajo Nation

BIA



		110168
14. I herospheritify that the foregoing to true and correct  (MADMUM) Tit	ne Production Administrator	Date 01/21/98
(This space for Federal of State office use)  Approved by  Conditions of approval, if any:	itle	Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



Energy Corporation 977 P.01 Dec-31-97 03:17P Hark/ FORM APPROVED Form 3160-5 UNITED STATES Budget Bureau No. 1004-0135 (June 1990) DEPARTMENT OF THE INTERIOR Expires: March 31, 1993 BUREAU OF LAND MANAGEMENT 5 Lease Designation and Serial No. NOG 8707-1142 SUNDRY NOTICES AND REPORTS ON WELLS 9. If Indian, Alluttee or Tribe Name Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals Navajo 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE A\N 1. Type of Well Well XX Well Well Name and No. Black Rock #12 2. Name of Operator Harken Southwest Corporation 02-001-20294 3. Address and Telephone No. 10. Field and Pool, or Exploratory Area P. O. Box 612007, Dallas, TX 75261-2007 Black Rock 4. Lucation of Well (Footings, Sec., T., R., M., or Survey Description) 11. County or Parish, State NW/SW Section 7-40N-29E Apache Co., Arizona CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF ACTION TYPE OF SUBMISSION Change of Plans Notice of Intent Abandonment Recompletion New Construction Subsequent Report Non-Reutine Practuring Plugging Back Water Shut-Off Casing Repair Conversion to Injection Altering Casing Final Abandunment Notice X Other Return to Production Dispuse Water (Note: Reportesum of multiple completion on Well Completion of Recompletion Report and Engloring 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and frue vertical depths for all markers and zones pertinent to this work.)\* Please be advised that Harken Southwest returned the subject well to production 05:00 p.m. on December 30, 1997.

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitings or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

Production Administrator

CC: State of Arizona

Approved by Conditions of approval, if any.

BIA - Gallup, NM

Navajo Nation Minerals Dept

13

CHTUGGGES

- ESTABLES

	7.15		
Form 3160-5 (June 1990)	DEPARTMENT	D STATES OF THE INTERIOR ND MANAGEMENT	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993  5. Lease Designation and Serial No. NOG 8707-1142
Do not use this fo	orm for proposals to drill Jse "APPLICATION FOR	ND REPORTS ON WELLS or to deepen or reentry to a different reservoir. PERMIT—" for such proposals N TRIPLICATE	6. If Indian, Allonee or Tribe Name  Navajo  7. If Unit or CA, Agreement Designation
1. Type of Weil Oil XX Gas Well XX Weil 2. Name of Operator Harken SOI	Other	ion	N/A  8. Well Name and No.  Black Rock #12  9. API Well No.
P.O. Box 6  Location of Weil Foota  NW/SW Sect	No. 512007, Dallas, Ige. Sec T R M or Survey Desc Lion 7-40N-29E	TY 75261-2007 (972)753-6900	02-001-20294  10. Field and Pool, or Exploratory Area  Black Rock  11. County or Parish, State  Apache, AZ
		TO INDICATE NATURE OF NOTICE, REPORE TYPE OF ACTION	RI, OH OTHER DATA
Notice XX Subseq	Abandonment Notice	Abandonment  Recompletion  Plugging Back  Casing Repair  Altering Casing  NOther Shut-In Status  pertinent details, and give pertinent dates, including estimated date of starting depths for all markers and zones pertinent to this work.)*	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection  Dispose Water  Note Repon results of multiple competion on Well Completion or Recompletion Repon and Log form.)  Ing any proposed work. If well is directionally drilled.
		commercial production rates on the subject v	vellbore have been

unsuccessful. Therefore, the Black Rock #12 was shut-in on August 1, 1997, pending

engineering evaluation to re-establish production.

Navajo Nation - Minerals Dept

State of Arizona

BIA - Gallup, NM

foregoing is true and correct

CC:

Signed

Approved by Conditions of approval, if any:

Title 13 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, ficutious or fraudulent statements or representations as to any matter within its jurisdiction.

Tide Production Administrator

AUG 1997

ARIZONA GEOLOGICAL SURVEY ARIZONA OIL AND GAS CONSERVATION COMMISSION

MULTIPOINT A ONE POINT BACK PRESSURE TES FOR GAS WELL

vpe Test						Test Date		Well Name		
	X Ini	ial	☐ Annual		Special	8-7-	93	Black	Rock	#12
mpany	<u> </u>		Connecti	on				Permit No.	Ø7 r	
Chuska E	nerau C	mpany	ļ						875	<u> </u>
ol			Formation	on Barker	r Crk, Pin	kerton.	Trail,	Unit		
			Hermo	sa, Desc	ert Crk, I	smay, P	kan			
mpletion Dat	te	Total Dep	th	Plug Ba	ack TD	Elevati		Farm or Le		ŧ
7-31-/8	5-6-93	5230'	KB	N/A		567	9 GR	Black	KUCR	
g. Size	Wt.	d	Set At	Perfora	itions:			Well No.		
4 1/2	11.6#	J-55 L	T&C 5234'	From	SEE ATTAC	HMENT		12		
g. Size	Wt.	d	Set At	Perfora	itions:				ec. Tv 7-40N	vp. Rge.
2 3/8	4.7#	J-55	4947'	From		То			7-40N	-29E
	Single — Bra	denhead — G	G. or G.O. Multin	MITIE	Packer Set A			County	1	
Sinale -	- Braden	head G.G	っついたりり	-M I I Ur	3994'			Apac	ne.	
oducing Thr	u Res	ervoir Temp.	Mean An	nual Temp. *	F Baro. Pres	- Pa		State		
Tbg	1	31 a 4970	70° I	-	12.1			Ariz	ona	
L	H	Gg.	% CO2	% N	2 % He	_	Prover	Meter 1		Taps
		.712	4.0	)4	8.71 N/	A	-	4:026	)	
	<u> </u>	FLOW DAT	ΓA		TUBIN	G DATA	(	CASING DA	ATA	Duration
Prover	Cho	ke Buss	Diff.	Temp.	Press.	Tem		Press.	Temp.	of Flow
D. Line Size	X Orif Siz	CC :		F		.Ł	1 .	s.i.g.	"F	
4.026	x 2.0	180	24	640	325	648	1	V/A	N/A	2 hrs
		110	static (50	00#)=4.2	24					<u> </u>
<del></del>		110	Diff. 100"	= 4.9		1				<u> </u>
<u> </u>	· <b></b>			<del></del>						1
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<del>-  </del>		•								1
			RAT	E OF FLO	W CALCULA	TIONS				
1			Exten	sion .	Town Town	Gravi	tv	Super	i	
O. Coe	efficient I-Hour)	$-\sqrt{h_{W}}$			Flow Temp. Factor Ft.	Facto Fg	r l	Compress. Factor, Fpv	1	Rate of Flow Q. McId
(24	-Hour)	V nw	Pm PSIA	n i	PC.				î	
. 842.1	12	67.85	191.8	0 1.	008	1.185		1.014.0	1,	700
				:					<u>:</u>	
-					y=1.	$p_0 = 14$	.72		:	
				1						
-					Fr2=1.	14	.65 =1	.0055		
i.					Fr.2=1.	14	.65   =1 	.0055		
i				Gas Liquid	Fr.2=1.		. 65   =1	.0055		Mcf/
	Temp.	R T <sub>r</sub>	z	ł -	Fh2=1.	Ratio	.65   =1	.0055		Met/
o. Pr	Temp.	Tr Tr	z	A.P.I Grav	Fr.2=1.	Ratio Hydrocarbo	.65   =1	.0055		•
i. i. i. i. Pr	Temp.	r T <sub>r</sub>	z	A.P.I Grav Specific Gr	i Hydrocarbon Exity of Liquid Stravity Separator	Ratio Hydrocarbo Gas	. 65   =1			•
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i. i. i. i. i. i. i. i. i. i. i. i. i. i	P <sub>C</sub>	P <sub>W</sub> <sup>2</sup>	$P_c^2 - P_w^2$	A.P.I Grav Specific Grave Specific Grave Critical Properties To	i Hydrocarbon In the state of Liquid in the s	Ratio Hydrocarbo Gas Fluid	. 65   =1			
i. i. i. j.	P <sub>C</sub>			A.P.I Grav Specific Grave Specific Grave Critical Properties To	i Hydrocarbon In the prity of Liquid in the prity Separator in a prity Flowing ressure resource resour	Ratio Hydrocarbo Gas Fluid	. 65   =1			
3.	P <sub>C</sub>			A.P.I Grav Specific G Specific G Critical Pr Critical To	i Hydrocarbon Exity of Liquid is ravity Separator cravity Flowing ressure emperature	Ratio Hydrocarbo Gas Fluid	. 65   =1			
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3.   1.   5.   Fr   1.   22.   33.   44.   55.   Fc   NO.   Pt <sup>2</sup>	P <sub>C</sub>			A.P.I Grav Specific G Specific G Critical Pr Critical To	i Hydrocarbon Exity of Liquid is ravity Separator cravity Flowing ressure emperature	Ratio Hydrocarbo Gas Fluid	. 65   =1			
3.   1.   5.   Fr   1.   2.   3.   4.   5.   Ft   2.   3.   4.   5.   5.   5.   5.   5.   5.   5	P <sub>c</sub> <sup>2</sup>	P <sub>W</sub> <sup>2</sup>		A.P.I Grave Specific Grave Specific Grave Critical Processing To the Critical	i Hydrocarbon in the street of	Ratio Hydrocarbo Gas Fluid	. 65   =1	P.5.1.a.  R  P.2  P.2  P.2  P.2  P.2	n =	
3. 4. 5. NO. Pr 1. 2. 3. 4. 5. Pc NO. Pt 2 1. 2. 3. 4. 5. Absolute Op	P <sub>c</sub> <sup>2</sup>	P <sub>W</sub> <sup>2</sup>		A.P.I Grave Specific Grave Specific Grave Critical Processing To the Critical	i Hydrocarbon in the street of	Ratio	. 65   =1	P.5.1.a.  R  P.2  P.2  P.2  P.2  P.2	n =	
3.   1.   5.   Fr   1.   2.   3.   4.   5.   Ft   2.   3.   4.   5.   5.   5.   5.   5.   5.   5	P <sub>c</sub> <sup>2</sup>	P <sub>W</sub> <sup>2</sup>		A.P.I Grave Specific Grave Specific Grave Critical Processing To the Critical	i Hydrocarbon in the street of	Ratio	. 65   =1	P.5.1.a.  R  P.2  P.2  P.2  P.2  P.2	n =	
3.	P <sub>c</sub> <sup>2</sup>	P <sub>W</sub> <sup>2</sup>		A.P.I Grave Specific Grave Specific Grave Critical Processing To the Critical	i Hydrocarbon in the street of	Ratio	. 65   =1	P.5.1.a.  R  P.2  P.2  P.2  P.2  P.2	n =	p.

prepared under my supervision and direction correct and complete to the best of my known of the prepared under my known of the best of my known of the prepared under my known of the prep

Tests for Gas Well (File two copies)

Form No. 18

# Software Solutions

P.O. Box 452 Blanco, N.H. 87412 (505) 632-2661 Owner - Robert G. Lippincott





ACHIEVE !

CHUSKA ENERGY COMPANY 3315 BLOOMFIELD HWY FARMINGTON, N.M. 87401

#### GAS CHROMATOGRAPH ANALYSIS

CUST/STATION #: 6730010350

875 CUST STAT NO :

SEP 2 7 1993

CUST STAT NAME: BLACK ROCK #12

FIELD : ANETH

COUNTY STATE

SAMPLING DATE: 08/18/93

PRESSURE BASE : 14.696 DRY : MTR.RUN SOURCE : FERRARI GAS MEAS SAMPLED BY ANALYZED BY : B.L. : 95 PRESSURE DATE OF ANALYSIS: 08/21/93 FLOW TEMP : 50 RUN NUMBER

GPM @ CURRENT 14.696 D MOLE & COMPONENT 0.00 0.000 OXYGEN 4.04 0.000 0.00 CO2 0.000 8.71 NITROGEN 0.000 77.44 METHANE 1.459 5.47 ETHANE 2.50 0.687 PROPANE 0.127 0.39 I-BUTANE 0.245 N-BUTANE 0.069 0.19 I-PENTANE 0.00 0.20 0.072 **N-PENTANE** 0.00 0.28 0.126 **HEXANES** 2.785 100.00 TOTAL 0.0000 SPECIFIC GRAVITY 0.7120 GROSS BTU/CU. FT. @15.025 DRY 1033.2 0.0 0.0 GROSS BTU/CU. FT. @15.025 SAT 1015.7 1012.9 0.0 GROSS BTU/CU. FT. @14.730 DRY GROSS BTU/CU. FT. @14.730 SAT 0.0 995.3 GROSS BTU/CU. FT. @14.696 DRY 0.0 1010.6 GROSS BTU/CU. FT. @14.696 SAT 993.0 0.0

REMARKS :

JUL 15 '93 08:50 CHUSKA FARMINGTON NM

602-628-5106

# CONFIDENTIAL

BLACK ROCK #12 SEC. 7, T40N, R29E, APACHE COUNTY, ARIZONA

FORMATION	PROJECTED GEOLOGY	E-LOG TOPS	DRILLING BREAKS	PEAK GAS	GAS
MORRISON		SURFACE	·		
WINGATE		115'	-		
CHINLE	1,013'	895'			
	2,013'	2,027	4107'-4114'	340	4
	2,385'				
HERMOSA	3,710'			172	3
ISMAY	4,308'		4444'-4447'	54	12
LOWER ISMAY	4,369'	4,361	4523'-4526'	84	5
DESERT CREEK	4,467'	4.449	4543'-4551'	50	40
CHIMNEY ROCK	4,591'	4,580	4633'-4640'	100	2
AKAH	4,597'	4,586	4668'-4676'	108	6
BARKER CREEK	4,730'	4,736	4702'-4706'	130	9
PINKERTON TRAIL	4,856'	•	4749'-4766'	320	60
MOLAS	5,052'			116	7
MISSISSIPPIAN TD (5230)	5,136'	5,136	4920'-4927'	44	2

PRIVATE CONFIDENTIAL

SUNDRY NOTICES AND REPORTS AZ OIL & GAS 1. Name of Operator Chuska Energy Company (Specify) \_\_\_\_\_ OTHER [ ] GAS WELL [ ] 2. OIL WELL [ ] 3. Well Name \_\_\_\_ Black Rock #12 Location 1527' FSL, 1165' FWL 40N Rge. 29E County Apache , Arizona. 4. Federal, State or Indian Lease Name, or lessor's name if fee lease NGG 8702-1116 Havajo Tribal 5. Field or Pool Name \_\_\_\_\_\_ Black Rock Paradox 6. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data SUBSEQUENT REPORT OF NOTICE OF INTENTION TO MONTHLY PROGRESS [ ] PULL OR ALTER CASING [ ] WATER SHUT OFF TEST WATER SHUT OFF [ ] FRACTURE TREATMENT [] REPAIRING WELL DIRECTIONAL DRILL FRACTURE TREAT SHOOTING OR ACIDIZING [ ] ALTERING CASING [] PERFORATE CASING SHOOT OR ACIDIZE **ABANDONMENT** CHANGE PLANS REPAIR WELL (OTHER) Extend APD approval (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.) 7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) Owing to further evaluation of the prospect and reserves, spud of this well has been delayed. Chuska Energy therefore applies for a twelve month extension to the approved APD on this well. Six month to 12/1/91

By Soferal Ran

ARIZONA STATE OIL & GAS CONSERVATION COMMISSION

**Bate** 

8. I hereby certify that the foregoing is true and correct

00875

Permit No.

Form No. 25

Operations Engineer

Date 5-10-91

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports on Wells
File One Copy

	E PER PERM	IT TO DOUBLE	D DE ENTE	D	
	TION FOR PERM	II IO DRILL C		OLD WELL	
APPLICATION TO DRII	L <b>(3</b> )		HE-ENTER	OFD WELL I	
AME OF COMPANY OR OPERATOR					
huska Energy Company		City		State	
ddress		Gity			
. O. Box 780, Farmington,	New Mexico 8740	01			
rilling Contractor					
Co be Determined					
55,63		OF WELL AND LEAST			
		OF WELL AND LEASE	= ·	Elevation (ground)	
ederal, State or Indian Lease Number, or if fo		Black Rock	#1 <i>2</i>	5679' GR	
NOG 8702-1116 Navajo Tribal learest distance from proposed location	·	Dissance from pro	posed location to	nearest drilling,	
o property or lease line:	,	completed or appl	ied-tor well on th		
1165'	feet	4060 Number of wells of	n lassa instruction		feet
lumber of acres in lease:		completed in or d	rilling to this reser	voir:	
50,000		13			
ricase, parenasea with one or more	Name		Address		
vells drilled, from whom purchased: N/A					
· · · · · · · · · · · · · · · · · · ·	Section	ownship-range or bloc	k and survey	Dedication (Comply with	Rule 10
Vell location (give footage from section lines) 1527' FSL x 1165' FWL		7, T40N, R29E			_
Field and reservoir (if wildcat, so state)		County	-	is,	
Black Rock Paradox		Apache			
Distance in miles, and direction from nearest					
8 miles west/southwest of 'Proposed depth:	Teec Nos Pos, A	rizona Is	Approx. 6	date work will start	
5266'	Rotary		7=	15-90	
Bond StatusPending	Organization Repor		, i	of \$25.00	
Amount \$25,000	On file	Or attached	Attached		
CERTIFICATE: 1, the undersigned, under t					
Chuska Energy Company report was prepared under my supervision a	(compar and direction and that the	ny), and that I am author facts stated therein are Signatur	Onal 4	pany to make this report; and complete to the best of my k	nowledg
Permit Number:			IL & GAS CONSE Application	OF ARIZONA RVATION COMMISSION to Drill or Re-enter Two Copies	

(Complete Reverse Side)

1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat. 2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided. 3. ALL DISTANCES SHOWN ON THE PLAT MUST BE FROM THE OUTER BOUNDARIES OF THE SECTION. 4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES\_ 5. If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or NO\_\_\_\_\_\_. If answer is "yes," Type of Consolidation\_\_\_ 6. If the answer to question four is "no," list all the owners and their respective interests below: Land Description Owner CERTIFICATION I hereby certify that the information above is true and complete to the best of my knowledge and belief. Name Position Company Date I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor 500 0 Certificate No. 1000 330 660 990 1320 1650 1980 2310 2640 2000 1500 PROPOSED CASING PROGRAM Type Cementing Depths Sacks Cement Grade & Type Bottom Size of Casing Weight

O

CHANGE :

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FORH 3

AZ OIL & CAS
CONSERVATION AMISSION

ST. OF UTAH DIVISION OF OIL, GAS AND MINING APR 3 0 199 15. Lease Designation and Serial No. NOG 8702-1116 APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK Navajo Tribal In. Type of Work 7. Unit Agreement Name ORILL 🕢 PLUG BACK DEEPEN [ b. Type of Well Oil Well Multiple X 3. Farm or Lease Name Other 2. Name of Operator Black Rock 3. Well No. Chuska Energy Company #12 10. Field and Pool, or Wildcat P. O. Box 780. Farmington. New Mexico 87499
4. Location of Weil (Report location clearly and in accompance with any State regard at surface) Black Rock/Paradox 11. QQ, Sec., I., R., H., or 31h. and Survey or Area 1527' FSL x 1165' FWL At proposed prod. zone Same Sec. 7, T40N, R29E 14. Distance in miles and direction from neurest town or post office. 12. County or Parriet 8 miles west/southwest of Teec Nos Pos, Arizona <u>Apache</u> 15. Distance from proposed location to nearest property or lease line, (t. f. Also to nearest drie, line, if any) 16. No. of acres in lease 17. No. of acres assigned to this well 160 1165 50,000 E3. Distance from proposed location to nearest well, drilling, completed, or applied for, on this lesse, ft. 19. Proposeu denta 20. Roury or caple toots 4060 5266 Rotary 21. Elevations (Show wastner DF, RT, GR, etc.) 22. Approx. date work will Mart. 5679' GR 7-15-90 PROPOSED CASING AND CEMENTING PROGRAM Size of Hole Size of Casing Weight per Foot Setting Depth Quantity of Cement 12 1/4 426 cf 8 5/8 24 500 7 7/8 <u>5266</u> 928 cf

See attached drilling prognosis and 10 point plan.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposed is to deepen or plus back, give data on present productive sons and proposed new productive tone. If proposed is to drill or deepen directionally, give pertinent data on sunstance locations and measured and true vertical depths. Give blowaut presenter program, if any.

24. I hereby certify that this proof is true and complete to the best of my knowledge.

Signed. DOMALD C. DADNES

(This space for remeral or State office use)

Approval Date.

Approval Date.

\*See Instructions On Reverse Side

Title

(3/89)

Approved by

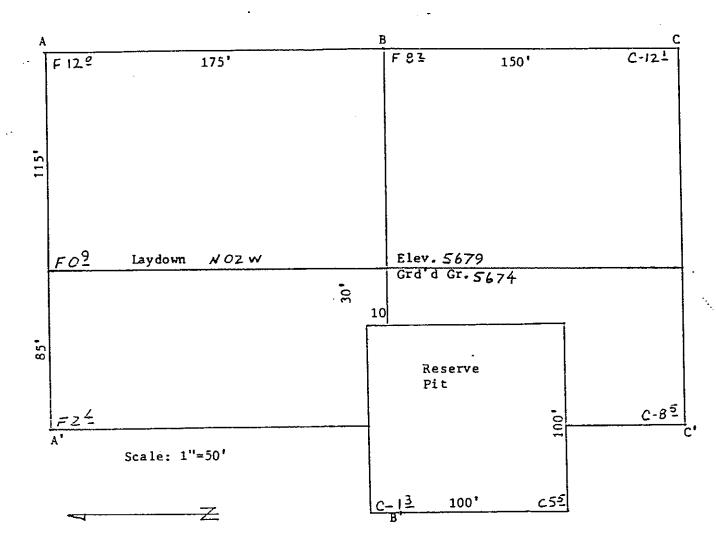
Conditions of approval, if any:

1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat. 2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided. 3. ALL DISTANCES SHOWN ON THE PLAT MUST BE FROM THE OUTER BOUNDARIES OF THE SECTION. 4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES\_\_\_\_\_ 5. If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or \_\_\_\_NO\_\_\_\_\_. If answer is "yes," Type of Consolidation\_ 6. If the answer to question four is "no," list all the owners and their respective interests below: Owner Land Description CERTIFICATION I hereby certify that the information above is true and complete to the best of my knowledge and belief. Name Rov A. Rush Surveyor Company Powers Elevation Co., Date April 8, 1990 I hereby certify that the well location shown on the plat was plotted from field notes of actual turneys made by me or under my condition and that of my knowledge and belief. 1165 ROY A. RUSH April 6. JONA. Registered Professional Engineer and/or Land Surveyor **(**, ) 1320 1650 1980 2310 2640 500 Certificate No. 2000 1500 1000 19348 PROPOSED CASING PROGRAM Size of Casing Weight Grade & Type Bottom Cementing Depths Sacks Cement Type Class 'G' 0 500 500 - surf 370 sks K55 STC 8 5/8 24 GAS BLOCK 5266 - 3000 350 sks 0 5266 K55 STC 5 1/2 15.5 65/35/6 Class '6' 3000 - surf224 sks 100 sks

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MIRS

Chuska Energy Company
Black Rock #12 1165fwl, 1527fsl
Section 7, T40N, R29E
Apache County, Arizona



A-A'	Vert.:  "= 30 <sup>t</sup>	Horiz.: I"= 100	C/L		
5670	<del> </del>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	AV POLICATION CONTRA		
5660'					
B-B'		/			
5680		<del></del>			
5670'		V:	11/1/19/19/19/19/19/19/19/19/19/19/19/19	7/1/7	
c-c'					
5680'	<del> </del>	<del>   </del>	/////		
5670'		†   K			
	<u> </u>	<del> </del>	+	++	

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Consistent !

CONSERVATION OF THE STATE Form approved.

CONSERVATION OF THE STATE OF Form 3160-3 (November 1983) UNITED STATES (formerly 9-331C) DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL NO. Vbs 3 0 1939 BUREAU OF LAND MANAGEMENT NOG 8702-1116 APPLICATION FOR PERMIT TO DRILL, DEEPEN, 6. IF INDIAN, ALLOTTER OR TRIBE NAME OR PLUG BACK Navajo Tribal 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME PLUG BACK 🗌 DRILL 🖾 DEEPEN  $\square$ b. TYPE OF WELL MULTIPLE X S. FARM OR LEASE NAME WELL Black Rock 2. NAME OF OPERATOR 9. WELL NO. Chuska Energy Company 12 3. ADDRESS OF OPERATOR P. O. Box 780, Farmington, New Mexico 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)

At surface 10. FIELD AND POOL, OR WILDCAT Black Rock/Paradox 1527' FSL x 1165' FWL At proposed prod. zone Sec. 7, T40N, R29E Same 12. COUNTY OR PARISH | 13. STATE 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE Apache Arizona 8 miles west/southwest of Teec Nos Pos, Arizona 10. DISTANCE FROM PROPUSED\*
LOCATION TO NEAREST
PROPERTY OR LEARE LINE, ST.
(Also to nearest drig, unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION\*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 17. NO. OF ACRES ASSIGNED TO THIS WELL 16. NO. OF ACRES IN LEASE 50,000 160 1165 20. BOTABY OR CABLE TOOLS 19. PROPOSED DEPTH Rotary 5266 4060 22. APPROX. DATE WORK WILL START\* 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7-15-90 <u>5679 GR</u> 23. PROPOSED CASING AND CEMENTING PROGRAM QUANTITY OF CEMENT SETTING DEPTH SIZE OF ROLE BIZE OF CABING WEIGHT PER FOOT 500 426 cf 24 12 1/4 <u>8 5/8</u> 5266 928 cf 15.5 <u>7 7/8</u> <u>5 1/2</u>

See attached drilling prognosis and 10 point plan.

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false. fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Black Rock No. 12 Section 7, Township 40N, Range 29E 1527' FSL, 1165' FWL Apache County, Arizona

## 1. SURFACE FORMATION

Surface formation: Morrison.

#### 2. ELEVATION

Surface elevation; 5679' GR, 5693' KB.

#### 3. ESTIMATED FORMATION TOPS

		<u>Sub Sea</u>	
Depth	Formation	Elevation	
Surface	Morrison	+ 5679'	
1013'	Chinle	+ 4680'	
20131	De Chelly	+ 3680'	water
23851	Organ Rock	+ 3308'	
3723'	Hermosa	+ 1970'	gas
4317'	Ismay	+ 1376'	gas
4373	Lower Ismay	+ 1320'	gas
4461	Desert Creek	+ 1232'	gas
45 <b>9</b> 91	Akah	+ 1094	gas/water
4751 '	Barker Creek	+ 942'	gas
4873 <i>°</i>	Pinkerton Trail	+ 820'	gas
5101'	Molas	+ 592	
5166	Mississippian	+ 527	9as/oil/water
5266′	TD (100' below top of Mississippian)	+ 427'	

Ω

4. PROPOSED CASING/CEMENTING PROGRAM

	Depth	Size	Weight	<u>Grade</u>	Coupling
Surface:	500	8 5/8	24.0 ppf	K−55	STC
Production:	5266	5 1/2	15.5 ppf	K−55	STC

#### Surface Cementing:

370 sks (426 cf), Class 'G' cement with 2% CaCl2 and 1/4 #/sk celloflake. Weight - 15.6 ppg, yield 1.14 cf/sk. Slurry volume calculated at 100% excess over annular volume.

#### Production Cementing:

#### First Stage

TD to 3000' (stage collar @ 3000'). 350 sks Class 'G' GASBLOCK slurry system + .25 #/sk celloflake (15.8 ppg, 1.14 cf/sk). Total of 398 cf.

Circulate 4 hours between stages

## Second Stage

3000' to surface. Lead with 224 sks Class 'G' 65/35 poz + 6% gel + .25 #/sk celloflake (12.7 ppg, 1.85 cf/sk), tail with 100 sks Class 'G' + 2% CaCl2 (15.6 ppg, 1.15 cf/sk). Total of 530 cf.

Note: Exact slurry volumes for the production string will be adjusted based on the caliper log to be run prior to cementing.

#### BLOWOUT PREVENTER (See attached schematics)

As abnormal pressure is not anticipated, a 2000 psi BDP system will be sufficient for the drilling of this well. However, due to availability constraints, a 3000 psi system will be used, as per the attached Exhibits "A" and "B". Exhibit A diagrams a 10" x 900 Series double ram preventer, equipped with a set of pipe and blind rams.

An accumulator system, with a pressure capacity sufficient to operate the rams three complete cycles without rig power, will be required by the operator.

6. PROPOSED MUD PROGRAM

Surface to 3000'

Fresh water, gel/lime, & native solids. Weight  $8.3-8.7~\mathrm{ppg}$ , with gel/lime sweeps as necessary to clean hole.

3000' to Total Depth

Low solids — non dispersed polymer system. Weight 8.6-9.2 ppg. Sweep with gel/lime sweeps as hole conditions dictate. Fluid loss to be maintained at 15 cc or less. Fluid loss to be further reduced to 10 cc or less prior to drilling the Paradox formation.

#### 7. AUXILIARY EQUIPMENT

- A. A kelly cock will be installed during drilling operations, with handle available on the rig floor.
- B. Floor (stabbing) valves will be available, on the rig floor at all times, with necessary subs to fit all drilling assemblies.
- C. Mud will be the circulating fluid. No abnormal formation pressures are expected.

#### 8. WELL EVALUATION

Open hole electric logging program will consist of a minimum program of DLL-MSFL-SP-GR-Cal, FDC-CNL-GR-Lithodensity from TD to  $3500^{\circ}$ .

Drill stem testing will be as per well site geologist's recommendations, based on shows. A mud logging unit will be utilized during drilling operations from 3500' to TD.

#### 9. ABNORMAL PRESSURES/GAS

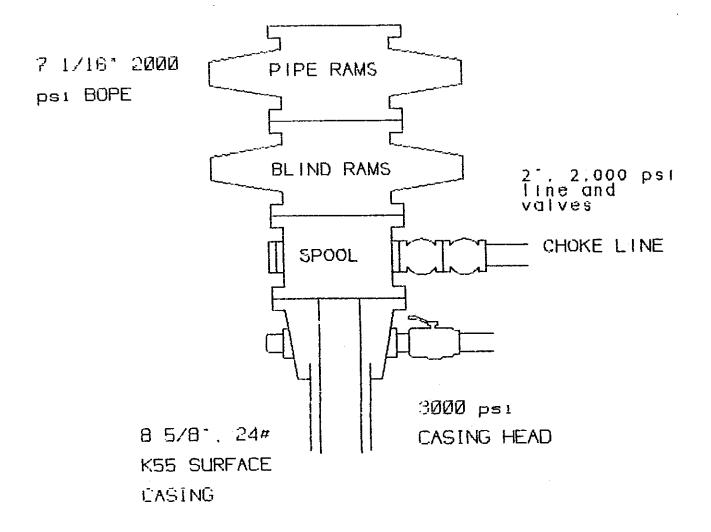
Abnormal pressure is not anticipated. Monitoring of gas and hydrocarbon shows will be by well site mud logging unit. H<sub>2</sub>S gas has been encountered in offset wells at concentrations averaging 1200 ppm. An H2S detection and alarm system, with appropriate safety equipment, will be in place from 3500° to TD. An H2S Safety representative will be on site for all DST's, coring operations, trip gas, and circulating bottoms up.

#### 10. TIMING

It is estimated that the drilling and evaluation of this well will require 20 days. Anticipated spud date is 7-1-90.

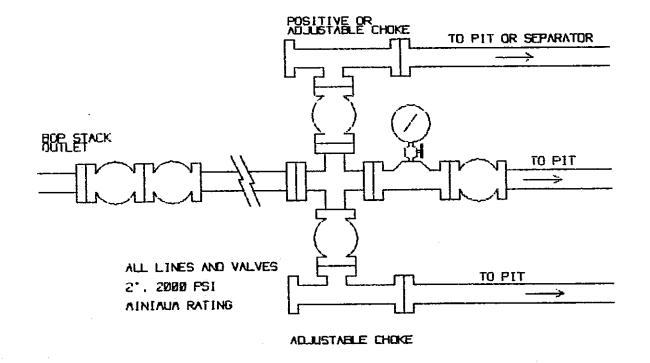
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# EXHIBIT A

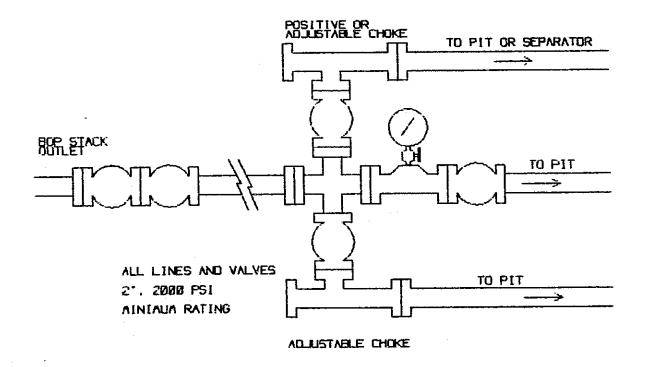


# EXHIBIT B - CHOKE MANIFOLD

DANIER CO.



# EXHIBIT B - CHOKE MANIFOLD



DETAILED DRILLING PROGRAM

DATE:

April 26, 1990

WELL NAME:

Black Rock

WELL NO: 12

LOCATION:

1527' FSL, 1165' FWL Section 7, Township 40N, Range 29E

Apache County, Arizona

**ELEVATION:** 

5679' GR / 5693' KB

TOTAL DEPTH:

5266'

PROJECTED HORIZON: Paradox at 4317'.

#### DRILLING, CASING AND CEMENTING PROGRAM

- 1. Move in and rig up rotary tools. Notify BLM of intent to run surface casing and time of spud.
- 2. Drill mouse hole and rat hole. Mix mud prior to spudding well.
- 3. Drill 12 1/4" hole to 500'. Use fresh water gel/lime spud mud for drilling surface hole. Well bore inclination is not to exceed 1 degree at 500'. Deviation surveys will be run at 250' and at casing point.
- 4. Run 8 5/8", 24 ppf, K55, STC casing to TD. Cement with 370 sks (426 cf) of Class 'G' + 2% CaCl2 + 1/4 #/sk celloflake (sufficient slurry volume to circulate cement to surface).
- W.O.C. a minimum of 4 hours prior to cutting off casing. Nipple up BOP stack and related equipment. See BOP schematics
- Insure that the cement slurry has been static at least 8 hours before proceeding with pressure testing operations. Pressure test BOP to 2000 psi for 30 minutes. Pressure test manifold and all related equipment to 2000 psi. Pressure test casing to 1500 psi for 30 min.
- 7. Drill out of surface casing with 7 7/8" bit. Drill 7 7/8" hole to TD. Deviation surveys are to be taken every 500' or on bit trip whichever occurs first. Maximum allowable deviation will be 5 degrees at TD with the maximum allowable rate of change to be 1 degree/100'.
- 8. Run open hole logs and evaluate. Drill-stem test as per well site geologist's recommendation.

9. If well is determined to be commercial, run 5 1/2", 15.50 ppf, K55 casing to TD. Set stage cementing collar at +\- 3000'. Cement in two stages as follows:

#### First Stage

TD to 3000' (stage collar @ 3000'). 350 sks Class 'G' GAS-BLOCK slurry system + .25 #/sk celloflake (15.8 ppg, 1.14 cf/sk). Total of 398 cf.

Circulate 4 hours between stages.

#### Second Stage

3000' to surface. Lead with 224 sks Class 'G' 65/35 poz + 6% gel + .25 #/sk celloflake (12.7 ppg, 1.85 cf/sk), tail with 100 sks Class 'G' + 2% CaCl2 (15.6 ppg, 1.15 cf/sk). Total of 530 cf.

Note: Exact slurry volumes for the production string will be adjusted based on the caliper log to be run prior to cementing.

- 10. Nipple down BBPE. Set 5 1/2" casing slips, cut off casing. Install well head. Release drilling rig and move rig off location.
- 11. If well is non-productive it will be plugged and abandoned as per State, BLM, BLM, and Navajo Tribal stipulations.

Black Rock No. 12 Section 7, Township 40N, Range 29E 1527' FSL, 1165' FWL Apache County, Arizona

#### GENERAL COMPLETION PROCEDURE

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If the well is determined to be productive in the Paradox formation, move in completion rig. Perforate, acidize, and test each productive porosity zone. Completion work will commence after Sundry Notice approval is received. Detailed procedures to follow.

#### PLUGGING AND ABANDONMENT

If the well is determined not to be productive, the well bore will be plugged as per BLM instructions.

O

#### Black Rock #12

#### SURFACE USE PLAN

#### 1. EXISTING ROADS

The second

Shown on the attached topographic map, are the existing roads in the immediate area. Outlined are the roads to be used from Road 5049, 9 miles west of Teec Nos Pos Arizona (exhibit 1). Existing roads will be maintained while operations are in progress.

#### 2. PLANNED ACCESS ROAD (SHOWN IN RED)

The access road as shown on the topographic map will exit from road 5049. The road will be flat bladed, constructed 14' in width, and maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. An estimated 0.1 miles of new road will be constructed to the location pad.

#### 3. LOCATION OF EXISTING WELLS & TANK BATTERIES

The existing wells and facilites are shown on the topographic map (exhibit 1).

#### 4. LOCATION OF EXISTING AND PROPOSED FACILITIES

Production facilities will be utilized at the central compressor and production station located in section 8. Glycol pumps and a compressor may be required at a later date and will be installed on the location pad.

#### 5. LOCATION & TYPE OF WATER SUPPLY

Water will be aquired from a private source. The water will be hauled from a flowing well permitted to Hay Hot Oil, Inc., permitted under Water Right 09-1419, A60809.

#### 6. SOURCE OF CONSTRUCTION MATERIALS

The need for additional construction materials is not anticipated. In the event additional materials are required, they will be aquired from private sources or with the approval of the Navajo Nation.

7. METHODS OF HANDLING WASTE MATERIAL

Trash will be contained on location in an enclosed trash bin. It will be hauled to an approved disposal site or burned on location if a burning permit is granted. The reserve pit will be lined with an approved 7 mil liner for containing drilling fluids. The pit will be fenced. All drilling fluids, cuttings and chemical waste will be stored in the reserve pit. Liquid hydrocarbons will be stored in temporary storage tanks and hauled from location to approved sales facilities. The reserve pit will be emptied, backfilled, and restored to the natural terrain.

#### 8. PORTABLE TOILET

Chemical portable toilet facilities will be provided on location during drilling and completion operations.

#### 9. ANCILLARY FACILITIES

No camps or air strips are planned for this well.

#### 10. WELL SITE LAYOUT

Attached is a surveyor's staking plat, cut and fill requirements and a schematic of the proposed rig layout.

#### 11. PLANS FOR RESTORATION OF THE SURFACE

Top soil removed from the pad, will be stored at the well site. After drilling operations are complete, drilling fluid in the reserve pit will be allowed to evaporate. All remaining fluid in the pit will be disposed of into an approved disposal site. The reserve pit will remain fenced during the evaporation/disposal process. The pit will then be covered and the topsoil will be returned to the disturbed area. The terrain will be returned to its original condition as much as possible. Rehabilitaion seeding will be in accordance with the APD/BLM/BIA stipulations.

# 12. LOCATION CONSTRUCTION

The location is laid out on a north/south trend requiring 12' of fill on the northwest corner and 12' of cut on the southwest corner. The reserve pit will be built on terrain containing sparse native vegetation. No residents are in the immediate area.

STEER

VEDVE**SES** 

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PRIMARE
TRILETS

PARP FIT

ORAN VORTE

DEAN VORTE

PITE BASKET

FITE SAME

FI

O

13. OPERATORS REPRESENTATIVE

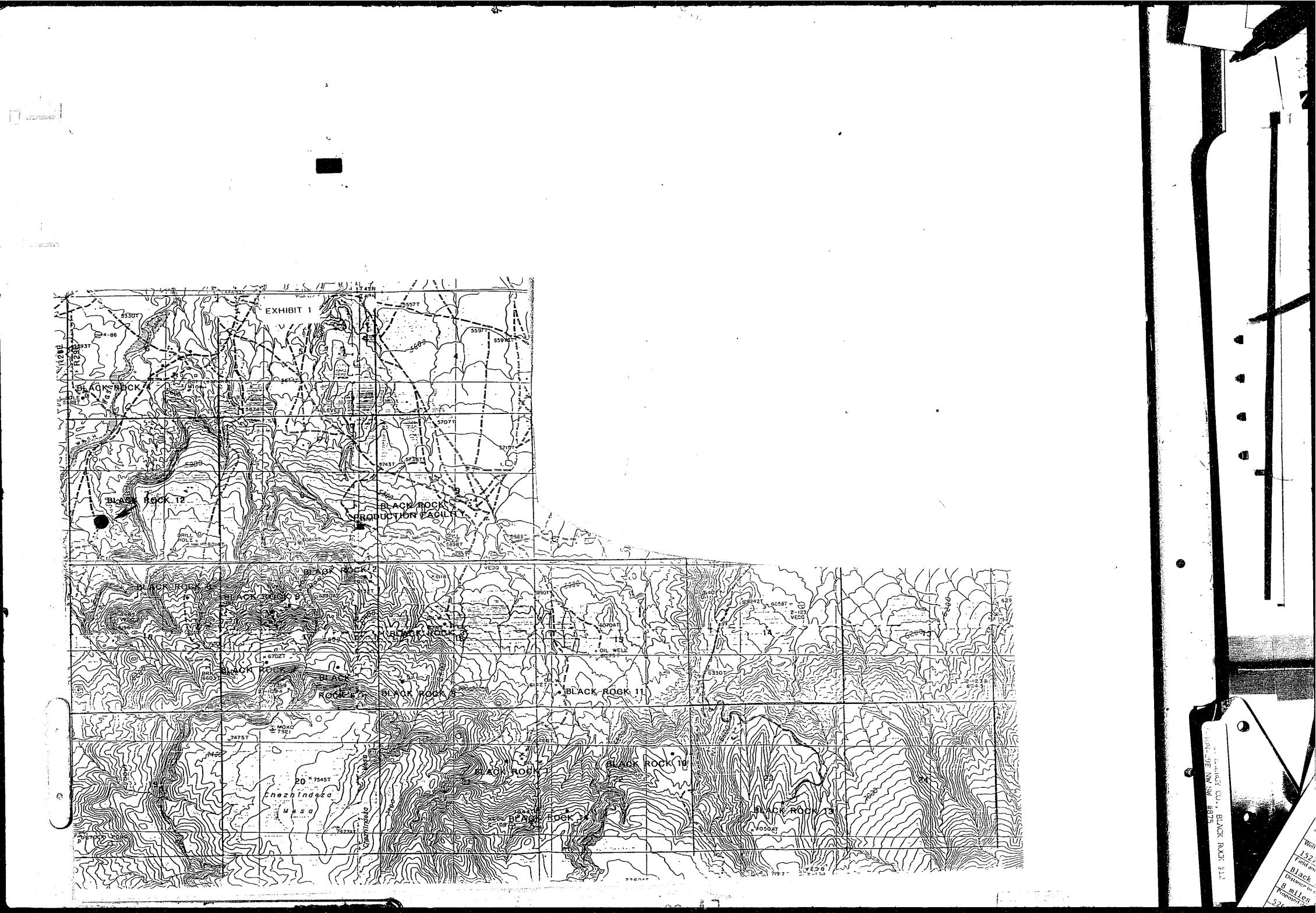
CHUSKA ENERGY COMPANY 315 NORTH BREHREND AVENUE FARMINGTON, NEW MEXICO 87401 DONALD S. BARNES

#### 14. CERTIFICATION

I herby certify that either I, or persons under my direct supervision have inspected the proposed drillsite and access route: that I am familiar with the conditions which presently exist: that the statments made in this plan are, to the best of my knowledge, true and correct, and that the work planned will be performed by Chuska Energy or its sub-contractors, in conformity with the terms and conditions under which it is approved.

DONALD S. BARNES Operations Manager

C



CANCEL SE

APPLICA	N FOR	PERMIT	TO DRILL OR	RONTE	R
APPLICATION TO DRI					OLD WELL []
NAME OF COMPANY OR OPERATOR			<u></u> ,		
Chuska Energy Company		Cit	Υ		State
P. O. Box 780, Farmington,	New Mexic	co 87401			
To be Determined Address				·	
	DESC	CRIPTION OF	WELL AND LEASE		
Federal, State or Indian Lease Number, or if f	ee lease, name	of lessor	Well number		Elevation (ground)
NOG 8702-1116 Navajo Tribal Nearest distance from proposed location to property or lease line:		<u> </u>	Black Rock #12 Distance from proposed completed or applied—	location to	5679 GR nearest drilling, e same lease:
1165'		feet	4060		feet
Number of acres in lease:			Number of wells on lea completed in or drilling		
50,000			13	ddress	
If lease, purchased with one or more wells drilled, from whom purchased:  N/A	Name		^	uuiess	
Well location (give footage from section lines	· ·	Section-tow	inship-range or block and	survey	Dedication (Comply with Rule 10
1527' FSL x 1165' FWL		Sec. 7,	T40N, R29E		SW 14
Field and reservoir (if wildcat, so state)			County		•
Black Rock Paradox Distance in miles, and direction from nearest	town or post o	ffice	Apache		
8 miles west/southwest of			zona		
Proposed depth:	Rotary o	r cable tools		Approx. d	late work will start
5266' SER		otary		7-	15-90 of \$25.00
Bond Status Pending Approve		tion Report		Attached	<i>-</i>
Amount \$25,000 Remarks:	On file	<u> </u>	Or attached	Attached	<u> </u>
API No.	02-	001-	- 20294		
CERTIFICATE: I, the undersigned, under t	the penalty of p				
Chuska Energy Company report was prepared under my supervision	and direction a	(company), nd that the fac	cts stated therein are type,	correct and c	/ I .
			Signature	mal.	Jame
			* ១ម្វេពងបោ <b>r</b> e	/	· ·
			<u>5-7-90</u> Date		
Permit Number: 875 Approved By: Approved By:	2			GAS CONSE	OF ARIZONA RVATION COMMISSION to Drill or Re-enter Two Copies
Notice: Before sending in this form be all information requested. Mu ence will thus be avoided.	e sure that you ch unnecessary	u have given correspond-	Form No. 3	1 115	

(Complete Reverse Side)

IJ

T. (12225)

-	•	
1.	Operator sha	li outline the dedicated acreage for both oil and gas wells on the plat.

- 2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
- 3. ALL DISTANCES SHOWN ON THE PLAT MUST BE FROM THE OUTER BOUNDARIES OF THE SECTION.
- 4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES\_\_\_\_\_
- 5. If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES\_\_\_\_NO\_\_\_\_. If answer is "yes," Type of Consolidation\_\_
- 6. If the answer to question four is "no," list all the owners and their respective interests below:

Dwner	-	Land Description	
			CERTIFICATION
		above is	certify that the information true and complete to the ny knowledge and belief.
		Position	es Elevation Co., Inc
	- <del> </del>	i hereby	certify that the well location the plat was plotted from
1165,		field not	nder (160-Allow) and that is 193-48 ROY A. RUSH
/5.27"		l Register	red Professiona: Engineer and Surveyor
0 330 660 990 1320 1650	1980 2310 2640 200	1500 1000 500 0 Certific	ate No. 19348

PROPOSED CASING PROGRAM Sacks Cement Cementing Depths Bottom Grade & Type Weight Size of Casing 370 sks 500 0 K55 STC 24 350 sks 8 5/8

500 - surf 5266 - 3000 3000 - surf GAS BLOCK 5266 0 K55 STC 65/35/6 Class '6' 15.5 5 1/2 224 sks 100 sks

Type

Class 'G'

STATE OF ARIZONA

LL AND GAS CONSERVATION COMMISSE

REQUIREMENTS FOR PROPOSED OPERATIONS

PERMIT NO. 875

Chuska Energy Company
315 N. Behrend
Farmington, NM 87401

Phoenix, Arizona May 14, 1990

Your proposal to drill well Black Rock No. 12 , A.P.I. No. 02-001-20294 , Section 7, T. 40N , R. 29E , G&SR B. & M., Black Rock field, Apache County, dated 4/26/90 , received 4/30/90 has been examined in conjunction with records filed in this office.

#### THE PROPOSAL IS APPROVED PROVIDED:

- 1. Mud pits are constructed and lined in a manner that will prevent contamination of surface or subsurface waters.
- 2. Drilling mud consistent with sound drilling practices shall be used at all times and sufficient amounts of lost circulation material shall be available at the drill site.
- 3. The well shall be cased and cemented in such a manner that will protect all zones that contain oil, gas, or fresh water.
- 4. Blowout prevention equipment shall be installed, tested, and maintained in a manner necessary to assure well control throughout the drilling, completion, or abandonment of the well.
- 5. Monitoring for H<sub>2</sub>S shall be continuous from 3500' to T.D. An H<sub>2</sub>S Safety Representative shall be on site for all Drill Stem Tests, cores, trip gas, and circulation of bottoms up.
- 6. Sundry reports shall be filed as required.
- 7. Two sets of samples of all cores and cuttings shall be taken at a maximum interval of ten feet. One set each shall be shipped prepaid to:
  - a. Oil & Gas Commission, 5150 N. 16th St., Ste. B141, Phoenix, AZ 85016. b. Arizona Geological Survey, 845 N. Park Ave., Tucson, AZ 85719.
- Complex and all long and suppose of any description shall be filed within
- 8. Samples and all logs and surveys of any description shall be filed within 30 days after the removal of the rig from the hole.
- 9. Application to Plug and Abandon (Form 9) shall be submitted to the Commission for approval prior to the beginning of operations to plug the well.

#### 10. THIS COMMISSION SHALL BE NOTIFIED:

- a. Immediately when drilling operations commence.
- b. In time to witness running and cementing of surface casing.
- c. In time to witness pressure test of BOPE prior to drilling out of surface casing.
- d. In time to witness plugging and abandonment operations.

To witness operations, call 602-255-5161.

After office hours notify: Steve Rauzi, 602-864-9148 or Dan Brennan, 602-971-2909.

C.D. # 2578904, Valley National Bank

D. J Brennan, Executive Director

A COPY OF THIS REPORT AND THE PROPOSAL MUST BE POSTED AT THE DRULLER'S STATION PRIOR TO COMMENCING OPERATIONS.

RECORDS FOR WORK DONE UNDER THIS PERMIT ARE DUE WITHIN 30 DAYS AFTER THE WORK HAS BEEN COMPLETED OR THE OPERATIONS HAVE BEEN SUSPENDED.

0



### PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION, STATE OF ARIZONA,

Го:		CHUSKA ENE	WIN COMPA	MW.	
		(OP	ERATOR)		
	to	drill a well	to be kno	wn as	
			VXX :12		
			. NAME)		
located	1527 185 6 1:85 EVA				
Section	7Township_40R	Range	رعلاء	Apeche	County, Arizona.
The	Skodwesi Quarcer				of said
in full co	d well is to be drilled substan	e laws, statut	tes, rules a	and regulations of	the State of Arizona.
Issu	ued this <u>black</u> day of		<u>`</u>		1 <u>y 20 .</u>
			OIL AN	Janu & D	ATION COMMISSION E DIRECTOR
			۲		The state of the s
PERMIT	00875			Cânân	of Azizona

RECEIPT NO. And the state of th

A.P.I. NO. 01.-001-20294

State of Arizona
Oil & Gas Conservation Commission

Permit to Drill

FORM NO. 27

#### **BLACK ROCK FIELD**

Operator:

**RIM Southwest Corporation** 

**Bond Company\*:** 

Indian lands, evidence of bond posted with BIA

RLI Insurance Co. \$150,000 BIA Nationwide Bond No. RLB0003993

Date of Bond:

11/26/01

Date approved:

\* Pursuant to Commission motion of October 31, 1997, no bond required with State of Arizona upon evidence of bond posted with the BIA.

### Permits covered by this bond posted with the BIA:

Dry Mesa Field <u>077</u> <u>106</u> <u>115</u> **852** 907 <u>559</u> Black Rock Field **581** 



State of Arizona

#### Arizona Geological Survey 416 W. Congress, Suite 100

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Fellows
Director and State Geologist

February 13, 2001

**CERTIFIED MAIL** 

Mr. Robert L. Vesco Vice-President RIM Southwest Corporation 5 Inverness Drive East Denver CO 80112

Re: Release of State-wide Performance Bond CD #2578904

Dear Mr. Vesco:

This will acknowledge evidence of RIM Southwest Corporation's bonding with the U.S. Department of the Interior, Bureau of Indian Affairs. As a result, the referenced certificate of deposit and executed release form are enclosed.

Sincerely,

Steven L. Rauzi

Oil & Gas Administrator

Steven C. Raris

Enclosures

## SECURITIES SAFEKEEPIN () 1700 WEST WASHINGTON ST. - PHOENIX, ARIZONA 85007

1	DATE: 02/05/01	STATE AGENCY NO.				
	STATE AGENCY ARIZONA GEOLOGICAL SURVEY/OIL&G  COMPANY CHUSKA ENERGY CO. / Harien Scut  1850 MT DIABLO BLVD STE 640  WALNUT CA 94500					
	DOMESTIC FOREIGN_	:				
	C.D. NO.:	SIT				
	BANK:	ing the second section of the second section of the second section of the second section of the second section of the second section section of the second section sec				
	MATURITY DATE: INTEREST F	ATE: %				
	AMOUNT \$					
	C.D. ASSIGNMENT MUST BE ATTACHED UNLESS C.D. IS	S PAYABLE TO STATE TREASURER				
)	C.D. NO.: 2578904 / ACCT NO.: 8272-4968/	ACCT NO.: 8272-4968/				
	MATURITY DATE: 05/30/90 INTEREST RATE: 7.30 % PERE 1/2: 100 PER 1/2: 100 PERE 1/2: 100					
-	AMOUNT \$ 25,000.00 /					
	STATE TREASURER VALIDATION NO.  RECEIVED THE ABOVE RELEASE	STATE AGENCY AUTHORIZATION				
	BY Jany D. Jullon 05 Feb 01	BY Jam, D. Julia 05 Feb 01  Authorized Signature				
	Authorized Signature Date	STATE TREASURER AUTHORIZATION				
	ARIZONA GEOLOGICAL SURVEY	BY ATTHOURS LIGHTEN				
<b></b>	Bank or Firm	Authorized Signature				
	FOR BANK USE ONLY	BANK AUTHORIZATION				
	Checked by Verified by	BYAuthorized Signature				
		STATE'S DEPOSITORY BANK				



## Arizona Geological Survey

416 W. Congress, Suite 100 Tucson, Arizona 85701 (520) 770-3500



Larry D. Feliows Director and State Geologist

February 5, 2001

Ms. Debby Harrington RIM Southwest Corporation 5 Inverness Drive East Denver CO 80112

Dear Ms. Harrington:

This will acknowledge receipt of documentation of name change, Organization Report (Form1) and updated Operator's Certificate of Compliance and Authorization to Transport Oil or Gas from Lease (Form 8).

I have enclosed approved duplicate originals of Form 8 for your files.

Sincerely,

Steven L. Rauzi

Oil & Gas Administrator

Stem C. Raiz

**Enclosures** 

# RIM SOUTHWEST CORPORATION 5 INVERNESS DRIVE EAST ENGLEWOOD, COLORADO 80112 303-799-9828

January 30, 2001

Mr. Steven Rauzi
Oil & Gas Program Administrator
Arizona Geological Survey
416 W. Congress, #100
Tucson, AZ. 85701

Re: RIM Southwest Corporation

Dear Mr. Rauzi,

As you requested, please find an Organization Report and documentation evidencing the name change from Harken Southwest Corporation for RIM Southwest Corporation.

Also enclosed is Form 8, in duplicate, for NOG 8707-1139, NOG 8707-1140 and NOG 8707-1142.

Please call me at (303) 799-9828, extension 305, if you have any questions or need anything further. Thank you for your assistance.

Very truly yours,

Debby Harrington
Senior Landman



The RIM Companies
5 Inverness Drive East
Englewood, Colorado 80112
303-799-9828
Fax 303-799-4259
E-Mail: rvesco@rimep.com



Oil & Gas

Acquisitions & Management

Rocky Mountains / Texas

January 25, 2001

Mr. Steven Rauzi
Oil & Gas Program Administrator
Arizona Geological Survey
416 W. Congress, #100
Tucson, AZ. 85701

(520) 770-3500) Fax (520) 770-3505

RE: Bonding for RIM Southwest Corporation

Dear Mr. Rauzi:

Enclosed please a copy of the approval letter dated May 18, 2000, from the United States Department of the Interior, Bureau of Indian Affairs for RIM's \$150,000 nationwide bond.

Additionally, RIM Southwest Corporation, (formerly known as Harken Southwest Corporation) has a \$25,000 certificate of deposit, certificate # 2578904, with the State of Arizona, maturing April 2, 2001. Please take the necessary action to release this certificate of deposit.

If you need any further information regarding the above referenced information, please contact me at extension 206. Thank you for your help.

Sincerely yours,

Robert L. Vesco, Vice-President
Secretary/Treasurer

O

The RIM Companies **5 Inverness Drive East** Englewood, Colorado 80112 303-799-9828 Fax 303-799-4259 E-Mail: rvesco@rimop.com



Oil & Gas Acquisitions & Management Rocky Mountains / Texas

January 25, 2001

Mr. Steven Rauzi Oil & Gas Program Administrator Arizona Geological Survey 416 W. Congress, #100 Tucson, AZ. 85701



RE: Name Change of Harken Southwest Corporation

Dear Mr. Rauzi:

Enclosed please find the State of New Mexico filed copy of "Articles of Amendment to the Articles of Incorporation" changing "Harken Southwest Corporation's" name to "RIM Southwest Corporation" ("RIM"). The corporation's federal tax identification number has not changed (85-0284260). RIM's address is 5 Inverness Drive East, Englewood, Colorado 80112.

Additionally, the officers of RIM Southwest Corporation are as follows:

President Vice President Stephen W. Rector Rene' Morin

Vice President

William J. Holcomb

VP, Secretary/Treasurer Robert L. Vesco

Additionally, enclosed is a copy of RIM Operating, Inc. and RIM Offshore, Inc.'s "United States Department of the Interior, Bureau of Indian Affairs, Nationwide Oil and Gas Bond Number RLB0001937" in the amount of \$150,000, along with Bond Rider to Assume Liability Number 1 and RLI Insurance Company's Power of Attorney. With your concurrence, RIM would like to add RIM Southwest Corporation as an additional principal to this bond. Please coordinate with us regarding this matter.

If you need any further information regarding the above referenced information, please contact me at extension 206.

Sincerely yours,

Secretary/Treasurer

Operator \_\_ CHUSKA ENERGY COMPANY (Hatken Southwest Corp.) Bond Company VALLEY NATIONAL BANK - ARIZONA Amount \$25,000 Date Approved 12/01/89 Permits covered by this bond: 559 581 (P+A 11-21-95) 610 615 (J & A 871 872 expired (P & A 8/4/93)873 874 expired 875

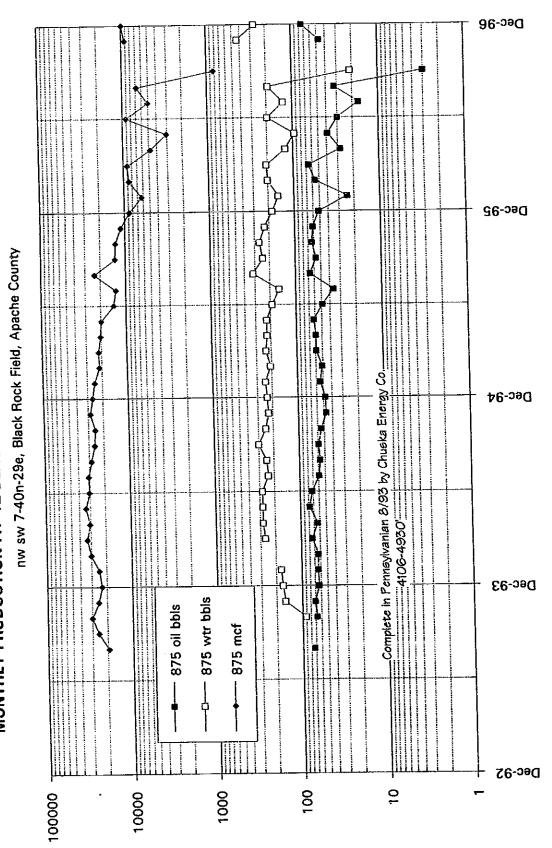
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Active bond file

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MONTHLY PRODUCTION AT 12 BLACK ROCK (875), ARIZONA: AUG 1993 - DEC 1996



(

HARKEN

ENERGY CORPORATION

March 11, 1994



875

State of Arizona
Oil & Gas Conservation Commission
845 N. Park Avenue, Suite 100
Tucson, AZ 85719

Re:

NOG 8702-1139

NOG 8702-1140

NOG 8702-1142

Black Rock Well No.'s 1, 3, 5, 8 and 12

Gentlemen:

Please be advised that Harken Southwest Corporation no longer has a Farmington, New Mexico office. Therefore, please direct all future correspondence, regarding regulatory issues, to the undersigned at the letterhead address.

Thank you for your cooperation.

Very truly yours,

Rachelle Montgomery

Production Administrator

RM/jkw





Fife Symington Governor

## State of Arizona Arizona Geological Survey

845 North Park Avenue, #100 Tucson, Arizona 85719 (602) 882-4795



Larry D. Fellows Director and State Geologist

March 9, 1994

Ms. Katherine L. Valentin State Treasurer's Office 1700 West Washington Phoenix, Arizona 85007

Dear Katherine:

I received the enclosed letter from the corporate office of Harken Southwest (formerly Chuska Energy Company). Please file this copy with the assignment for Valley National Bank Certificate of Deposit No. 2578904, which you are holding in safekeeping for the Oil and Gas Conservation Commission.

Thank you.

Sincerely,

Steven L. Rauzi

Oil & Gas Program Administrator

Enclosure



## HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

March 2, 1994



Mr. Steven Rauzi Oil & Gas Program Administrator Arizona Geological Survey 845 Northpark Ave., Suite 100 Tucson, Arizona 85719

Chuska Energy Company-Arizona Statewide Bond for Drilling of Re:

Dear Mr. Rauzi:

Please be advised that with regard to the above referenced bond we are herewith enclosing documentation relating to a name change. Chuska Energy Company has now changed its name to Harken Southwest Corporation. Copies of the official documentation relating to this change of name are enclosed. We would appreciate the Arizona Geological Survey changing their records to style the above referenced bond as follows:

Harken Southwest Corporation, formerly Claska Energy Company

Sincerely

HARKEN SOUTHWEST CORPORATION

Dale Brooks Treasurer

Dele Povole

DB:le Enclosures cc:Bruce N. Huff

> 2505 NORTH HIGHWAY 360 - SUITE 800 • GRAND PRAIRIE, TEXAS 75050 P.O. DRAWER 612007 • DALLAS, TEXAS 75261 • PHONE: (817) 695-4900 • FAX: (817) 652-4455

### HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

March 2, 1994



Mr. Steven Rauzi Oil & Gas Program Administrator Arizona Geological Survey 845 Northpark Ave., Suite 100 Tucson, Arizona 85719

Re: Chuska Energy Company-Arizona Statewide Bond for Drilling of Wells

Dear Mr. Rauzi:

Please be advised that with regard to the above referenced bond we are herewith enclosing documentation relating to a name change. Chuska Energy Company has now changed its name to Harken Southwest Corporation. Copies of the official documentation relating to this change of name are enclosed. We would appreciate the Arizona Geological Survey changing their records to style the above referenced bond as follows:

Harken Southwest Corporation, formerly Chuska Energy Company

Sincerely

HARKEN SOUTHWEST CORPORATION

Dale Brooks Treasurer

DB:le Enclosures cc:Bruce N. Huff

2505 NORTH HIGHWAY 360 - SUITE 800 • GRAND PRAIRIE, TEXAS 75050

P.O. DRAWER 612007 • DALLAS, TEXAS 75261 • PHONE: (817) 695-4900 • FAX: (817) 652-4455

STATE OF NEW MEXICO



OFFICE OF

### THE STATE CORPORATION COMMISSION

CERTIFICATE OF GOOD STANDING AND COMPLIANCE

IT IS HEREBY CERTIFIED that: HARKEN SOUTHWEST CORPORATION

1070770

a corporation organized under the laws of

NEW MEXICO

is duly authorized to transact business in New Mexico, as a Domestic Profit corporation, under the

BUSINESS CORPORATION ACT (53-11-1 to 53-18-12 NMSA 1978)

having filed its Articles of Incorporation SEPTEMBER 11, 1980 and Certificate of Incorporation issued as of said date.

IT IS FURTHER CERTIFIED that the fees due Corporation Commission, which have been assessed against the aforesaid corporation, have been paid to date and aforesaid corporation is in corporate good standing and duly authorized to transact business as its corporate existence has not been revoked in New Mexico. This Certificate is not to be construed as an endorsement, recommendation or notice of approval of the corporation's financial condition or business activities and practices. This Certificate of Good Standing and Compliance expires MARCH 15, 1995

Dated: PEBRUARY 16, 1994

In Testimony Whereof, the State Corporation Commission of the State of New Mexico has caused this certificate to be signed by its Chairman and the Seal of said Commission to be affixed at the City of Santa Fe

Chairman

Director

STATE OF NEW MEXICO



OFFICE OF

### THE STATE CORPORATION COMMISSION

CERTIFICATE OF AMENDMENT

 $\mathbf{OF}$ 

HARKEN SOUTHWEST CORPORATION

3080801

The State Corporation Commission certifies that duplicate originals of the Articles of Amendment attached hereto, duly signed and verified pursuant to the provisions of the BUSINESS CORPORATION ACT

(53-11-1 to 53-18-12 NMSA 1978)

have been received by it and are found to conform to law.

Accordingly, by virtue of the authority vested in it by law, the State Corporation Commission issues this Certificate of Amendment and attaches hereto a duplicate original of the Articles of Amendment.

Dated: SEPTEMBER 14, 1993

(i,j)

In Testimony Whereof, the State Corporation Commission of the State of New Mexico has caused this certificate to be signed by its Chairman and the Seal of said Commission to be affixed at the City of Santa Fe

Chairman

Director

3080801

ARTICLES OF AMENDMENT TO THE ARTICLES OF INCORPORATION OF

CHUSKA ENERGY COMPANY

SEP | 4 1993

CORPORATION DEPARTMENT

Pursuant to the provisions of Section 53-13-4 of the New Mexico Business Corporation Act, the undersigned corporation adopts the following Articles of Amendment to its Articles of Incorporation.

FIRST: The name of the corporation is CHUSKA ENERGY COMPANY.

SECOND: The following amendments to the Articles of Incorporation were adopted by the shareholders of the corporation on July 8, 1993, in the manner prescribed by the New Mexico Business Corporation Act:

ARTICLE ONE is amended and shall read as follows:

"The name of the corporation is HARKEN SOUTHWEST CORPORATION."

THIRD: The number of shares of the corporation outstanding at the time of such adoption was 20,000 and the number of shares entitled to vote thereon was 20,000.

FOURTH: The number of shares voted for such amendment was 20,000 and no shares were voted against such amendment; there is only one class of shares.

FIFTH: The Amendment does not provide for any exchange, reclassification or cancellation of issued shares.

Dated: September 1, 1993

CHUSKA ENERGY COMPANY

Larry E. Cummings, Vice Presiden

and

SED 1 A 1993

Patricia A. Little, Assistant Secretary

O

The undersigned does hereby certify that the undersigned is one of the corporate officers who executed the foregoing document on behalf of the corporation, and that the statements contained therein are true.

Larry E. Cummings

Documents/Name.chg/pi/BNH

ARTICLES OF AMENDMENT Page 2





## HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

January 28, 1994

We are pleased to announce that Chuska Energy Company has changed its name to Harken Southwest Corporation. This is in line with the February, 1993 merger with Harken Exploration Company.

Harken Southwest Corporation will continue to be located at 3315 Bloomfield Highway, Farmington, New Mexico 87401. Our telephone number will remain (505) 326-5525.

Please reflect this name change on all future correspondence.

Thank you for your assistance in this matter. We look forward to working with you as Harken Southwest Corporation.

Sincerely,

BARRY A. WIELAND Operations Manager



Rocky M Section I

Rocky Mountain Region Report Section I

11-4-93

Page 2

file 875

### Chuska Extends Northeastern Arizona's Black Rock Field

flow of 1,500,000 cu ft of gas per day from Paradox at a stepout from Black Rock field, a Pennsylvanian/Mississippian pool on Navajo Indian lands 10 miles west of

Teec Nos Pos in northeastern Arizona.

The northeastern Apache County producer, the 12 (formerly 10) Black Rock in nw sw 7-40n-29e, was set up as a 5266-fit test of Paradox zones and drilled by Aztec Well Servicing's Rig #301. No other completion details are yet available.

The well is within three quarters of a mile west-northwest of two abandoned producers on the northwestern flank of Black Rock field. The closer of the two, the 34 Navajo-7 in sw se 7-40n-29e, produced 5,990 bbls of 36° oil with small amounts of gas and water from Mississippian at 5562-67 ft before being abandoned. The 12 Black Rock is nearly a mile northwest of the northwesternmost active producer in the field.

Chuska earlier this year staked location for a 5914-fit test of Paradox and Mississippian zones at the 11 Black Rock in swsw 15-40n-29e. The latter site is about 110 ft southeast of an abandoned Paradox producer completed by Universal Resources in 1972 on the southeastern flank of Black Rock field and a little more than three miles southeast of the company's 12 Black Rock well.

Since going on line in 1973, Black Rock field has produced about 4.66 billion cu ft of gas, 21,130 bbls of oil and 270,357 bbls of water. Four active field wells in July produced a combined average of 813,000 cu ft of gas per day.

#### (UPRC, continued from Page 1)

County, will be drilled by a Murfin Drilling rig nearly one and a half miles north-northeast of Speaker field, a Morrow oil and gas pool being developed by Union Pacific and Mustang Oil & Gas that surpassed the one-million-bbl mark in August (PI 11-1-93).

The new venture is half a mile north of the company's 1 Flathead 14-31, sw sw 31-11s-50w, a Morrow test completed this summer as a 6765-ft dry hole.

Approximately eight miles to the southeast, in neighboring Cheyenne County, Union Pacific is drilling toward an objective of 6600 ft in Morrow at the 1 Brontos 32-35 in sw ne 35-12s-50w. This wildcat is being

(.)

drilled by Murfin's Rig #14 about four miles east of Marmaton and Morrow oil production at Bledsoe Ranch field.

Elsewhere in Cheyenne County, Union Pacific, with Cheyenne Drilling's Rig#7 on site, is drilling an offset to an apparent discovery seven miles northeast of Cheyenne Wells. The 1 Peter 41-29, ne ne 29-13s-43w, is projected to 5900 ft in Morrow. It offsets to the northwest Union Pacific's 1 Chunky 12-28 in sw nw 28-13s-43w, a projected 5500-ft Morrow test drilled in June by Cheyenne's Rig#7 with no details disclosed. The area is within a mile east of Shawnee oil production in Mayfield field.

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OPERATOR !

15763**336**33



Fife Symington Governor

## Arizona Geological Survey

845 North Park Avenue, #100 Tucson, Arizona 85719 (602) 882-4795



Larry D. Fellows
Director and State Geologist

August 26, 1993

Mr. Barry Wieland, Operations Manager Chuska Energy Company 3315 Bloomfield Highway Farmington, New Mexico 87401 Petmit 875

Dear Barry:

In response to my telephone call this morning, I have enclosed a couple of our well completion report forms for you to report the completion of Black Rock 10 and 12. Please file a copy of any wireline logs run on these two well with the completion reports.

I have also enclosed a couple of multipoint and one point back pressure test for gas well. Please file this form with your completion report for the number 12 well.

In addition, a *plugging record* form is enclosed. Please file this form with your completion report for the number 10 well.

Sincerely,

Steven L. Rauzi
Oil & Gas Program Administrator

Enclosures





Fife Symington Governor

## State of Arizona Arizona Geological Survey

845 North Park Avenue, #100 Tucson, Arizona 85719 (602) 882-4795



Larry D. Fellows
Director and State Geologist

August 4, 1993

Mr. Barry Weiland, Operations Manager Chuska Energy Company 3315 Bloomfield Highway Farmington, New Mexico 87401

Re: Renew permits 875 (Black Rock 12), 873 (Black Rock 10), 874 (Black Rock 11), and 870 (Black Rock 7).

Dear Mr. Weiland:

I have enclosed a receipt for your application fee to renew the referenced permits. These renewals are good for 90 days. Please keep in mind that you may request extensions on any of the permits should you decide to further evaluate production before you continue with your drilling program at the Black Rock Field.

Let me know if I may be of additional assistance.

Sincerely,

Steven L. Rauzi
Oil & Gas Program Administrator

Enclosure

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RECEIPT Date 8-4 1993 No. 3046

Received From Chushas & mergy Campany
Address Farmington NM

Address Farmington NM

For Resew permits BR # 7, 10, 11 + 12

ACCOUNT HOW PAID

AMI. PAID

BALANCE DUE ORDER

BY Kausette Calton

BK806 Rediform

Rocky Mountain Region Report Section I

7-26-93

Page 4

file 875

### Chuska Cases Paradox Prospect in Northeastern Arizona

HUSKA ENERGY Cohasset production casing at a stepout from a Pennsylvanian/Mississippian pool on Navajo Indian lands 10 miles west of Teec Nos Pos in northeastern Apache County, Arizona.

The 12 (formerly 10) Black Rock, nw sw 7-40n-29e, was set up as a 5266-ft test of Paradox

zones and drilled by Aztec Well Servicing's Rig#301. No other details are yet available.

The prospect is within three quarters of a mile west-northwest of a pair of abandoned producers on the northwestern flank of Black Rock field. The closer of the two, the 34 Navajo-7 in sw se 7-40n-29e, produced 5,990 bbls of 34° oil with small amounts of gas and water from Mississippian at 5562-67 ft before being abandoned.

Log tops at the 34 Navajo-7, measured from a kelly bushing elevation of 5981 ft, include Hermosaat 4045 ft, Ismay 4585, Desert

Creek 4751 and Mississippian at 5432 ft.

Chuska has moved Aztec's Rig #301 four miles to the southeast

where it is drilling below 2065 ft toward an objective of 6522 ft at the 10 Black Rock in sene 22-40n-29e. This venture is about a mile east of the southeasternmost producer in Black Rock field, the 1 Black Rock in sene 21-40n-29e. Log tops at the latter well, originally completed by Cities Service Oil as the 1 Monsanto-Nadepth is 6111 ft. The 1 Black Rock originally was completed in Barker Creek at 5533-77 ft commingled with Pinkerton Trail perforated at 5653-60 ft.

Since going on line in 1973, Black Rock field has produced about 4.55 billion cu ft of gas with 21,000 bbls of oil and 270,000 bbls of water.

3	R28E ●	1 *	6	R29E		3
	<b>* *</b>	● Dry Mesa	12 Black Rock		<b>*</b>	T 40 N
			* *	袋 Black 今 Rock	<b>*</b>	<b>♦</b>
					*	10 Figure Black Rock
27		25	30			27

vajo-A, include Hermosa at 4442 ft, Ismay 5036, Akah 5322, Barker Creek 5478, Pinkerton Trail 5592 and Mississippian at 5870 ft. Total Four active field wells in March produced a combined daily average of 897,000 cu ft of gas, two bbls of oil and one bbl of water.



JANE 1713



Fife Symington

## Arizona Geological Survey

845 North Park Avenue, #100 Tucson, Arizona 85719 (602) 882-4795



Larry D. Fellows Director and State Geologist

July 13, 1993

Mr. Barry Weiland, Operations Manager Chuska Energy Company 3315 Bloomfield Highway Farmington, New Mexico 87401

Re: Black Rock Field, Apache County, Arizona. Wells #12, #10, #11, and #7

Dear Mr. Weiland:

I am sorry that you were unable to reach me before commencing work on the referenced wells. The phone numbers provided with the State Permits are no longer valid because administrative and staff support for the Oil and Gas Conservation Commission is now handled by the Geological Survey here in Tucson; my office number is listed on the letterhead and my home phone number is 602-881-4850. I have enclosed a couple of my cards showing these phone numbers.

I would appreciate your sending me any updates to the drilling prognoses in our files and a sundry summarizing drilling activity. The prognosis we have for the #12 is dated 4-26-90; for the #10, 11-8-89; for the #11, 11-14-89; and for the #7, 10-6-89. Our records show that #7 was junked and abandoned in May 1990. Are you going to drill the #7 from the original location? If so, what is the new location? I also note that Black Rock #13 and #14 are spotted on the map submitted with the #12 prognosis. Do you plan on permitting these two wells soon?

As we discussed on the phone, I will need at least 48 hours notice to allow me enough time to drive to Farmington to witness the circulation of cement on the surface casing and the pressure test of the BOPE and surface casing. Using rig pumps is satisfactory with the Commission.

Finally, I have enclosed a few completion reports for your use upon completion of the wells. Any logs run on the wells can be submitted with the completion report. I do look forward to a successful completion on each of these wells and I hope they lead to additional drilling in Arizona. Do not hesitate to contact me if I can provide any information or additional service.

Sincerely,

Steven L. Rauzi

Oil & Gas Program Administrator

Steven L. Ravij

Enclosures

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Batty Weiland Called 7-13-93

Black Rock # 12 (P/N 875)

Will set production pipe late tomotrow (Wednesday)

85" CSS to 425'

10 bbls count circulated

AZtre Rig # 301 (505-334-6191)

To nove ris on Thursday to # 10, # 11, # 7

Installing the monitor @ 3200'

Hell Lindenmeyer is land tep

Larry Chambers is Dhilling Engineer



#### Oil and Gas Conservation Commission

STATE OF ARIZONA

5150 N. 16th STREET, SUITE B-141 PHOENIX, ARIZONA 85016 PHONE: (602) 255-5161

May 20, 1991

Mr. Larry G. Sessions Operations Manager Chuska Energy Company 3315 Bloomfield Highway Farmington, NM 87401

RE: Permit extension for Black Rock 12 (State Permit 875) Black Rock Field, Apache County, Arizona

Dear Mr. Sessions:

In light of the production history and your continued evaluation of the Black Rock field, we hereby grant a six-month extension to state permit 875 (Black Rock 12).

This extension is good until December 1, 1991.

Sincerely,

Steven L. Rauzi

Oil & Gas Program Administrator

Stevent of arif

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### CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

AZ OIL & GAS
CONSERVATION COMMISSION

MAY 13 1991

10 May, 1991

Arizona Oil & Gas Commission 5110 North 16th Street Suite B141 Phoenix, Arizona 85016

Ref: Sundry Notices: Extension to APD for Black Rock #12

Gentlemen

Attached for your examination and approval are the original and two copies of the subject Sundry Notice.

Please advise if you require additional information concerning this submission.

Sincerely,

Larry a. Sessions Operations Manager

LGS/cswh
File: C:\WP51\BLAKROCK\BR12EXT.CVR

encl.

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#### Oil and Gas Conservation Commission

STATE OF ARIZONA

5150 N. 16th STREET, SUITE B-141 PHOENIX, ARIZONA 85016 PHONE: (602) 255-5161

May 14, 1990

Mr. Thomas R. McCarthy Chuska Energy Company 315 North Behrend Farmington, NM 87401

RE: Black Rock 12, State permit 875

Dear Tom:

I am enclosing the following for Black Rock 12:

- 1. Approved application for permit to drill.
- 2. Permit to drill.
- 3. Requirements for proposed operations.
- Receipt.

We look forward to a successful completion of your well.

Sincerely,

Steven L. Rari B

Steven L. Rauzi Oil & Gas Specialist

Enclosures



## CHUSKA ENERGY COMPANY

315 N. BEHREND • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525
P.O. BOX 780 • FARMINGTON, NEW MEXICO 87499

# 875

May 7, 1990

State of Arizona
Oil and Gas Conservation Commission
5150 North 16th Street, Suite B-141
Phoenix, Arizona 85016

ATTENTION: Daniel J. Brennan

RE: Application to Drill - Black Rock #12

Dear Mr. Brennan:

Enclosed you will find copy of the above-referenced APD, which we previously sent to you on a Utah form, rather than the Arizona form.

Please accept our apology for any inconvenience this may have caused you. If there is anything additional you need, please advise.

You will also find enclosed our check #147 in the sum of \$25.00, which was previously omitted.

Sincerely,

DONALD S. BARNES Operations Manager

DSB: bnp

File:DSB\APDBR12



RECEIVED
MAY 41990

#### Oil and Gas Conservation Commission

STATE OF ARIZONA

5150 N. 16th STREET, SUITE B-141 PHOENIX, ARIZONA 85016 PHONE: (602) 255-5161

May 2, 1990

Mr. H. Merle Myers Vice President of Production Chuska Energy Company 315 North Behrend Farmington, NM 87401

Dear Mr. Myers:

We have received Chuska's application for permit to drill Black Rock #12.

We have noticed that your office used the first page of the State of Utah form and the second page of the Arizona form. The Arizona form is somewhat different than the Utah form and the form of the oath is different. Therefore, we have to request that the <u>form only</u> be resubmitted on the required Arizona form. Enclosed are copies of the Arizona form.

Also we note that you have not submitted the required filing fee of \$25.00 with the application. When that is submitted, we can proceed with issuing the permit. At this time, it appears that the application is otherwise complete.

Very truly yours,

Daniel J. Brennan Executive Director

Enclosures

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## CHUSKA ENERGY COMPANY

315 N. BEHREND • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525
P.O. BOX 780 • FARMINGTON, NEW MEXICO 87499

AZ OIL & GAS CONSERVATION COMMISSION

APR 3 0 1990

April 26, 1990

State of Arizona Oil & Gas Conservation Commission 5150 North 16th Street, Suite B141 Phoenix, Arizona 85016

. ATTENTION: Daniel J. Brennan

RE: Application for Permit to Drill - Black Rock #12

Dear Mr. Brennan:

Enclosed you will find for your examination and approval the original and two copies of the above-referenced Application for Permit to Drill.

Please advise if you require any additional information concerning this. We will appreciate your prompt consideration.

Sincerely,

H. MERLE MYERS Vice President of Production

HMM:bnp Enclosures File:HMM\BLKROCK.12

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$\mathcal{L}^{\pi}$	O TRANSPORT OIL OR GAS FRO	
ederal. State or Indian Lease Number. r lessor's name if fee lease NOG 8707-1142	Field Black Rock	Paradox
urvey or Sec-Twp-Rge Section 7&18-40N-29E	County Apache	State Arizona
Perator Harken Southwest Corpo	ration	
	ALL CORRESPONDENCE CONCERNIN	IG THIS FORM TO:
treet 5605 N. MacArthur Blvd. Suit	<u>. •</u>	State Texas 75038-2617
Above named operator authorizes (name of tra Giant Industries	insporter)	
Transporter's street address 5764 Hwy 64	City Farmington	State New Mexico 87401
Field address		
	Oil, condensate, gas well gas, casin	ghead gas
To transport 100	% of the Condensate	from said lease.
16 (talisport	RERS TRANSPORTING FROM THIS LI	EASE ARE AS FOLLOWS:
Name of gatherer Western Gas	5 transported F	roduct transported
	XIII SIDE	
-NT		
Change of Condensate Purchas (Black Rock #8 & #12)	ser of Co	
(Black Rock #8 & #12)		Gas Conservation Commission have been compiled with
(Black Rock #8 & #12) The undersigned certifies that the rules and re	egulations of the State on Ariana Qil &	Gas Conservation Commission have been complied with ove transporter is authorized to transport the above specific and that this authorization will be valid until further notions.
The undersigned certifies that the rules and redrilling and producing operations on this lease percentage of the allowable oil or gas produced or until cancelled by the State of Arizona Oil	egulations of the State of Arthum Qil & accept as noted above, and that the above described property, a & Gas Conservation Commission.	and that this authorization will be valid until further noti
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ORGANIZATION REPORT

``		
Full Name of the Company, Organization, or Individ		
Post Office Address (Box or Street Address) P. O. Drawer 612007, Dallas,	Harken Southwest Corporation, TX 75261 -or- 2505 N. Hwy 360	), Suite 800, Grand Prairie, TX
	a corporation, joint stock association, firm or partner	rship, or individual) 75050
Corporation	9	
Purpose of Organization (State type of business in v Oil & Gas Explo	oration	
If a reorganization, give name and address of previous Changed name from Chuska E	us organization.	
If a foreign corporation, give	(2) Name and post office address of state agent	(3) Date of permit to do business in state
(1) State where incorporated	Corporation Service Co.	
Nevada	530 South 4th Street Las Vegas, Nevada 89101	1980
Principal Officers or Partners (if partnership)	TITLE	POST OFFICE ADDRESS
NAME	Chairman of the Board	P. O. Drawer 612007
Mikel D. Faulkner	Chief Executive Officer	Dallas, TX 75261
	President	
Richard Schroeder	Chief Operating Officer	11 11
Bruce Huff	Senior Vice President Chief Financial Officer	tt tt
Druce nuti	Vice President	
Larry Cummings	General Council	ti it
		1910
		17 15/11)
		1115
	12/10/19	17/2/
DIRECTORS NAME	7 111/2/2	POST OFFICE ADDRESS
/ All of the above	P. Q. Drawer 612007 Bat	las, TX 25261
m m1	(D)	
Don Raymond	P. 0 Prawer 612007, Dal	Llas, TX 75261
	NATE	
CERTIFICATE: I, the undersigned, under the pr	enalty of perjury, state that I am theProductio	on Administrator of the
Harken Southwest Corporation	/ }	d by said company to make this report; and that this
	direction and that the facts stated the ein are true, or	correct and comprete to the best of my knowledge
	X A Alla	180 Kontamerin
75270	Signature Rache	
2582931317	Signature Rache	alle t. montgomeny
Eloc -	<i>A</i> C	6/24/94
STOCKEY ARIZONA AL LOCKEY	Date	V/ 57/ 27
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Ry ARIZOGIE	789	STATE OF ARIZONA
12 :01, RN	OIL & GA	AS CONSERVATION COMMISSION

875

4/82

Organization Report File One Copy

Form No. 1

(1)

(Black Rock #8 & #12)		
	CERTIFICATE OF COMPI TRANSPORT OIL OR GA	PLIANCE AND AUTHORIZATION EAS FROM LEASE
Identi State or Indian Lease Number, or	Field	Reservoir
ssor's name If fee lease NOG 8707-1142	Black Rock	Paradox
urvey or Sec-Twp-Age Section 7&18-40N-29E	County Apache	State Arizona
parator RIM S	Southwest Corpora	ation
	ALL CORRESPONDENCE CONC	CERNING THIS FORM TO:
Treet 5 Inverness Drive East	City Englewood	d Colorado 80112
bove named operator authorizes (name of transp Giant Industries		
ransportar's street address	City	on State New Mexico 87401
5764 Hwy 64	Farmingto	on New Mexico 8/401
- Teld Modicos	•	
	Oil, condensate, gas well gas	as, casinghead gas
To transport	% of the	from sald lease
OTHER GATHERE	ERS TRANSPORTING FROM THIS	
Name of gatherer	% transported	Product transported
Western Gas	100%	Gas
		•
· · · · · · · · · · · · · · · · · · ·	ations of the State of Arizona Oil & noted above, and that the above to described property, and that this	& Gas Conservation Commission have been complied with in driting a transporter is authorized to transport the above specified percentage his authorization will be valid until further notice or until cancelled by the
CEATHFICATE: Ithe undersigned, under the pen RIM Southwest Corporati	:	arm authorized by said company to make this report; that this report
was prepared under my supervision and direction $1/26/01$	n and that the facts stated therein a	are true, correct and complete to the best of my knowledge.
Date		Signature Rene' Morin, Vice President
Dais approved: 2-5-01  STATE OF ARIZON  OIL & GAS CONSERVATION C  By: 5-1875	NA COMMISSION	STATE OF ARIZONA
Permit No. 871,875  Mail two copies of completed form to: OI & Gas Program Administrator Afzona Geological Survey 416 W. Congress 8100 Tucson, AZ 85701-1315	ARIZONA ARIZONA ARIZONA	OIL & GAS CONSERVATION COMMISSION Operator's Certificate of Compliance & Authorization to Transport Oil or Gas from Lease File Two Copies Form No. 8

ARIZONA GEOLOGICAL SURVEY

TYPE OR PRINT LEGIBLY FILE DUPLICATE ORIGINALS FILING FEZ: \$100.00

> ARTICLES OF AMENDMENT TO TEE ARTICLES OF INCORPORATION

FILED IN OFFICE OF NE STATE COPPORATION COM DEC 5 5 5000

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Pursuant to the provisions of Section 53-13-4, NMSA 1978, the undersigned corporation adopts the following Articles of Amendment to its Articles of Incorporation:

ARTICLE ONE: (Note 1) The Corporate name and NMSCC# of the corporation

Harken Southwest Corporation #308000 1070770

ARTICLE TWO: (Note 2) The following amendment to the Articles of Incorporation was adopted by the Sole Shareholder corporation on December 21, 2000 in the manner prescribed by the New Mexi Eusiness Corporation Act: (Insert amendment or attach exhibit, if needed - Indication should be give to reflect which article(s) number has been amended.)

ARTICLE CNE is amended and shall read as follows:

"The name of the corporation is RIM Southwest Corporation."

ARTICLE TERES: (Note 3) The number of shares of the corporation outstanding at the time of such adoption was \_\_\_\_ \_\_\_ and the number of share \_\_\_20,000 entitled to vote thereon was 20,000

ARTICLE FOUR: (Note 4) The designation and number of outstanding shares of each class entitled to vote thereon as a class were as follows:

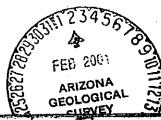
CLASS

NUMBER OF SHARES

One class only of Common Stock

20,000

ARTICLE FIVE: (Note 3) The number of shares voting for such amendment was 20,000 and the number of shares voting against such amendment was



020 22 2000

ARTICLE SIX: (Note 3) The number of shares of each class entitled to vo thereon as a class voted for and against such amendment, respectively, CLASS NUMBER OF SHARES

POR

AGAINST

Common -- only one class

20,000

ARTICLE SEVEN: (Note 4) The manner, it not set forth in such amendment, which any exchange, reclassification, or cancellation of issued shares provided for in the amendment shall be affected, is as follows:

imapplicable

FILES IN OFFICE OF

DEC 22200

DATED: December 2 2000

Harken Southwest Corporation

(Note 1) CORPORATE NAME

(Note 5) Its Stephen W. Rector

Stephen W.

 $\Delta MD$ 

(Note 5)

Under penalty of perjury, the undersigned declares that the foregoing document executed by the corporation and that the statements contained therein are true and correct to the best of my knowledge.

Harken popthwest Corporation

(Note 5) (One of the above officers.sign:

Stephen W. Rector, President



### RESOLUTION OF THE SOLE SHAREHOLDER HARKEN SOUTHWEST CORPORATION

A Special Meeting of the sole shareholder of HARKEN SOUTHWEST CORPORATION, (the "Corporation"), was held beginning at 330, Mountain Time, on Thusday December 21, 2000, pursuant to which the sole shareholder consented to, voted in favor of and adopted the following resolution:

> RESOLVED, that the Articles of Incorporation of the Corporation be amended in the form attached hereto by changing the name of the Corporation as follows:

#### ARTICLE I

#### <u>NAME</u>

The name of the corporation is RIM Southwest Corporation.

IN WITNESS WHEREOF, the undersigned has executed this written consent to be effective as of the 2 day of December 2000.

> RIM SW HOLDING CORPORATION, a Colorado corporation

Name: Stephen W. Rector Its: President



#680332 v1

ORGANIZATION REPORT

Full Name of the Company, Organization, or Individu		S HARKEN SO	OUTHWEST CORPORATION)	
Mailing Address and Phone Number				
5 INVERNESS DRIVE EAST,	ENGLEWOOD, COLORADO	80112 (	(303) 799-9828	
Plan of Organization (State whether organization is	a corporation joint stock association	n, firm or partnerst	ip, or individual	
Corporation Purpose of Organization (State type of business in	which enegged)	,		
Oil & Gas Production/Sal				
If a reorganiztion, give name and address of previo	us organization			
N/A	_			
If a foreign corporation give (1) State where incorporated	(2) Name and mailing address of CT Corporation		(3) Date of permit to do business in state	
New Mexico	322 5 N. Central A		1/16/88	
Principal Officers or Partners (if partnership)	Phoenix, AZ 85012		MAILING ADDRESS	
Principal Officers of Partitlers (if partitlership)  NAME	111.		TABLET TO TEST TEST	
			5 Inverness Drive East	
V. A. Isaacs, Jr.	Chairman, Board of	Directors		
			5 Inverness Drive East	
Stephen W. Rector	President		Englewood, CO 80112 5 Inverness Drive East	
D1 Wt-	Wise President		Englewood, CO 80112	
Rene' Morin	Vice President Vice President/Sec	retary/	5 Inverness Drive East	
Robert L. Vesco	Treasurer	.recary,	Englewood, CO 80112	
RODELC L. VESCO	II. COSOL CL		Post Office Box 2058	
William J. Holcomb	Vice President		Farmington, NM 87499	
	<b>\</b>	•		
	<u> </u>			
			·	
DIRECTORS NAME V. A. Isaacs, Jr.	a 1 3333	SAME A	MAILING ADDRESS AS ABOVE	
Stephen W. Rector		ři .	11	
Rene' Morin		13	17	
Robert L. Vesco		ti .	11	
		11	11,	
William J. Holcomb				
OCCUPANT I the surface had student be a	and the standard standard the standard standard standard standard standard standard standard standard standard	Secre	tary of the	
CERTIFICATE I, the undersigned, under the p RIM Southwest Corporati		<del></del>	by said company to make this report; and that this	
report was prepared under my supervision and	(company), and the			
report was prepared under my supervision and	direction and that the facts stated th		JUSC TO COMPANY WITH THE CONTROL OF	
		/\/	<u></u>	
		Signature Rober	t L. Vesco, Secretary	
	3456	1	1/25/01	
		Date		
	B 2001	<del></del>		
· · · · · · · · · · · · · · · · · · ·	RIZONA OLOGICAL SURVEY		STATE OF ARIZONA	
A A	RIZONA 120 OLOGICAL 220	OIL & GAS	S CONSERVATION COMMISSION	
Mail completed form to GE	SURVEY	Organization Report File One Copy		
Oil and Gas Program Administrator Arizona Geological Survey				
416 W Congress., \$100 Tucson, AZ 85701	026181H2H	orm No. 1		
1000H, AZ 00701	الله الله الله الله الله الله الله الله		2/96	

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